



# MEHRAN UNIVERSITY OF ENGINEERING AND TECHNOLOGY JAMSHORO

## Department of Civil Engineering



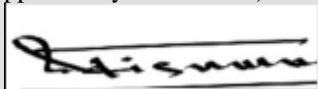
### LESSON PLAN

|  |   |   |  |  |
|--|---|---|--|--|
| COURSE TITLE: <b>Construction Engineering</b>  |   | COURSE CODE: <b>CE231</b>                 | CREDIT HOURS: <b>03</b>  | MINIMUM CONTACT HOURS: <b>48</b>   |
| COURSE INSTRUCTOR: <b>Prof. Dr. Tauha Hussain Ali (A+B)/Engr. Abdul Raqeeb Memon (C)/Engr. Muhammad Saleem Raza (A+B)</b>  |   |   |  |  |
| Batch: <b>23CE</b>   | Semester: <b>4<sup>th</sup></b>   | Semester Starting Date: <b>09-12-2024</b> | Semester Suspension Date: <b>18-04-2025</b>                                      |  |
| <b>COURSE LEARNING OUTCOMES:</b>   |   |   |  |  |
| <b>CLO No.</b>   | <b>Description</b>  | <b>Taxonomy level</b>                     | <b>Associated PLO</b>  |  |
| 1  | DISCUSS different construction methodologies being used in construction industry. | C2  | 1  |  |
| 2  | APPLY acquired knowledge to supervise different components of building works.     | C3  | 2  |  |
| <b>LESSON CONTENTS AND ASSOCIATED CLO(s)</b>   |   |   |  |  |
| <b>Contents</b>  | <b>CLO No.</b>  | <b>Marks Assigned</b>                     | <b>Delivery Methods</b>  | <b>Assessment Methods (Marks)</b>  |
| <b>Introduction:</b> <ul style="list-style-type: none"><li>An overview of constructional aspects for different types of engineering projects, e.g. building retaining structures, bridges, pavements and special structures, General consideration common to all projects with special reference to building structures.</li></ul> <b>Layout Techniques:</b> <ul style="list-style-type: none"><li>Building layout, De-watering Techniques, shoring to prevent excavations, Scaffolding techniques and their purposes, Introduction to earth walls, Use of bentonite etc., Form works for super structures, Types and costs involved (in construction), Thermal insulation of building and water proofing technique and materials, Use of admixtures to prevent efflorescence of brick and brick works, Dampness, Wall-dampness etc, Construction techniques etc.</li></ul> <b>No. of Lectures: 20</b> | <b>1</b>  | <b>40</b>                                 | <ul style="list-style-type: none"><li>Class Lecture</li><li>Discussion</li></ul> | <ul style="list-style-type: none"><li>Class Test-I (05)</li><li>Assignment-I (05)</li><li>Mid Semester Exam (20)</li><li>Final Exam (10)</li></ul> |

|   |   |    |   |  |
|---|---|----|---|--|
| <b>Constructional Methodologies</b> <ul style="list-style-type: none"> <li>Floor its types and construction, Floor finishing, Roofs and their construction types and Roofing Systems-finishes and waterproofing, Walls and their construction and types etc, Non-structural elements especially wood-construction and wood framing, Masonry, Stone masonry, Brick works with sufficient details related to constructional aspects, Doors, and windows allied services, e.g. Acoustics and maintenance of buildings etc.</li> </ul> <b>No. of Lectures: 28</b> | 2 | 60 | <ul style="list-style-type: none"> <li>Class Lecture</li> <li>Discussion</li> </ul> | <ul style="list-style-type: none"> <li>Class Test-II (05)</li> <li>Class Test-III (05)</li> <li>Assignment-II (10)</li> <li>Mid Semester Exam (10)</li> <li>Final Exam (30)</li> </ul> |
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#### ASSESSMENT DETAILS

| S. No. | Assessment Activities   | Marks | Activities    |   | CLO(s) to be assessed |
|--------|---|-------|---------------|---|-----------------------|
| 1      | Class Test/Assignment/Project Design/Presentation/Quiz/Field Report | 30    | Assignment(s) | 1 | 1 and 2               |
|        |   |       | Class Test(s) | 2 | 1 and 2               |
| 2      | Mid Semester Exam   | 30    | 1             |   | 1 and 2               |
| 3      | Final Semester Exam   | 40    | 1             |   | 1 and 2               |

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| Prepared by: <b>Prof. Dr. Tauha Hussain Ali</b><br><br>Signature:<br>Dated: 20-12-2024 | Reviewed by: <b>Curriculum Review Committee</b><br><br>Signature:<br>Dated: 20-12-2024 | Approved by: <b>Chairman, CED</b><br><br>Signature:<br>Dated: 20-12-2024 |
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