

**Faculty of Civil Engineering**  
**M.E. Construction Engineering and Management**  
**REGULATIONS 2021 Semester: I**

| <b>Course Code: ST4161</b><br><b>Course Title: Advanced Construction Engineering and Experimental Techniques Laboratory</b> |                                                                    |                                                        |
|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------|
| <b>Sl. No.</b>                                                                                                              | <b>Description of Equipment</b>                                    | <b>Required numbers<br/>(for batch of 25 students)</b> |
| 1                                                                                                                           | Ultrasonic flaw detector                                           | 1                                                      |
| 2                                                                                                                           | Four probe apparatus                                               | 1                                                      |
| 3                                                                                                                           | Ultrasonic interferometer                                          | 1                                                      |
| 4                                                                                                                           | Sodium vapour lamp                                                 | 1                                                      |
| 5                                                                                                                           | Co-ordination microscope with Longitudinal and transverse movement | 2                                                      |
| 6                                                                                                                           | Ammeter                                                            | 1                                                      |
| 7                                                                                                                           | Voltmeter                                                          | 1                                                      |
| 8                                                                                                                           | Screw gauge                                                        | 2                                                      |
| 9                                                                                                                           | Vernier caliper                                                    | 2                                                      |
| 10                                                                                                                          | Electroscope                                                       | 1                                                      |
| 11                                                                                                                          | Spectroscopy                                                       | 1                                                      |
| 12                                                                                                                          | Proving Ring                                                       | 1                                                      |
| 13                                                                                                                          | LVDT                                                               | 1                                                      |
| 14                                                                                                                          | High frequency generator                                           | 1                                                      |
| 15                                                                                                                          | Concrete Compression Testing Machine                               | 1                                                      |
| 16                                                                                                                          | L box apparatus                                                    | 1                                                      |
| 17                                                                                                                          | J Box apparatus                                                    | 1                                                      |

|    |                                      |   |
|----|--------------------------------------|---|
| 18 | V funnel apparatus                   | 1 |
| 19 | Slump Cone                           | 2 |
| 20 | Core cutter                          | 1 |
| 21 | Ultrasonic Pulse Velocity            | 1 |
| 22 | Rebound Hammer                       | 1 |
| 23 | Concrete Permeability Test Apparatus | 1 |