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Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada

Chebrolu(V&M), Guntur(Dt), A.P-522212

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| **BLOCK :** | **G** |
| **FLOOR :** | **GROUND FLOOR** |
| **ROOM NO:** | **003/ STRENGTH OF MATERIALS LAB** |
| **ROOM SIZE (in Sq. mtrs):** | **112.93** |
| **LAB NAME:** | **STRENGTH OF MATERIALS LAB** |
| **FANS :** | **3** |
| **TUBE LIGHTS :** | **3** |
| **CHAIRS :** | **2** |
| **STAFF TABLES :** | **1** |
| **EXPERIMENT TABLES :** | **1** |
| **CLOSED IRON RACKS :** | **0** |
| **WOODEN CLOSED RACKS :** | **0** |
| **Others:** | **BENCHES-8, STOOLS-3** |
| **LAB SPECIFICATIONS** | |

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| **S.NO** | **NAME OF THE EXPERIMENT** | **EQUIPMENT** | **QUANTITY** | **WORKING STATUS** |
| 1 | TENSION TEST ON STEEL BAR | UTM FOR CONDUCTING TENSION TEST ON RODS | 1 | NO |
| 2 | BENDING TEST ON (STEEL / WOOD) CANTILEVER BEAM | STEEL BEAM FOR FLEXURE TEST | 1 | YES |
| 3 | BENDING TEST ON SIMPLE SUPPORT BEAM | WOODEN BEAM FOR FLEXURE TEST | 1 | YES |
| 4 | TORSION TEST | TORSION TESTING MACHINE | 1 | YES |
| 5 | HARDNESS TEST | BRINNELL’S / ROCK WELL’S HARDNESS TESTING MACHINE | 1 | YES |
| 6 | SPRING TEST | SETUP FOR SPRING TESTS | 1 | YES |
| 7 | COMPRESSION TEST ON WOOD OR CONCRETE | COMPRESSION TESTING MACHINE(UTM) | 1 | NO |
| 8 | IMPACT TEST | IZOD IMPACT MACHINE | 1 | YES |
| 9 | SHEAR TEST | SHEAR TESTING MACHINE(U.T.M) | 1 | YES |
| 10 | VERIFICATION OF MAXWELL’S RECIPROCAL THEOREM ON BEAMS | BEAM SETUP FOR MAXWELL’S THEOREM VERIFICATION | 1 | YES |
| 11 | USE OF ELECTRICAL RESISTANCE STRAIN GAUGES | ELECTRICAL RESISTANCE GAUGES | 1 | YES |
| 12 | CONTINUOUS BEAM – DEFLECTION TEST. | CONTINUOUS BEAM SETUP | 1 | YES |