**Lesson Plan**

**Name of Faculty :** Kamal Kumar, Assistant Professor

**Discipline :** Mechanical Engg.

**Semester :** 3rd

**Subject :** **PCC-ME201-P, MECHANICS OF SOLIDS-I** **LAB**

**Lesson Plan Duration:** 15 weeks (from September, 2022 to December, 2022)

**Work Load (Lecture/Practical) per week (in hours):** Practical 02 hours

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| **Week** | **Topic**  | **%Syllabus Covered** | **Remarks** |
| 1st | To study the Universal Testing Machine (UTM) |  |  |
| 2nd | To perform tensile test on UTM on the given specimen (Mild steel and Cast Iron |  |
| 3rd | To perform compression test on UTM on the given specimen (Mild steel and Cast Iron) |  |
| 4th | To perform bending tests on UTM on the given specimen |  |
| 5th | To perform the torsion test on the given specimen (Mild steel and Cast Iron) |  |
| 6th | **Internal Viva-Voce-I** |  |
| 7th | **Minor Test- I** |  |
| 8th | To perform the Rockwell hardness test |  |
| 9th | To perform the Brinell hardness test |  |
| 10th | To perform the Vickers hardness test |  |
| 11th | To perform the Impact tests (Izod) |  |
| 12th | To perform the Impact tests (Charpy) |  |
| 13th | To study the Erichsen cupping sheet metal test |  |
| 14th | **Minor Test- II** |  |
| 15th | **Internal Viva-Voce-II** |  |