

**Instructors:** Prof. Ali Alsamhan & Dr. Mohammed Showdhury

**Engineers:** Mohammed Mabkhot, Wadea Ameen & Fawaz Alsamkry

| Unit 1- Unit 2                   |  |         |                                       |          |
|----------------------------------|--|---------|---------------------------------------|----------|
| Laboratory Name                  | Experiment Name  | Week No | Week Date                             | Group No |
| Introduction                     | Introduction   | W2      | Start: 24/09/2017<br>End : 28/09/1017 | G1 & G2  |
| Metal forming &<br>Metal Casting | Compression Test – Experiment Preparation and Theoretical Background<br>Green Sand Molding and casting - Experiment Preparation and Theoretical Background | W3      | Start: 01/10/2017<br>End : 05/10/1017 | G1 & G2  |
| Metal Forming                    | Compression test   | W4      | Start: 08/10/2017<br>End : 12/10/1017 | G1       |
| Metal Casting                    | Green Sand Molding and casting   |         |                                       | G2       |
| Metal Forming                    | Compression test   | W5      | Start: 15/10/2017<br>End : 19/10/1017 | G2       |
| Metal Casting                    | Green Sand Molding and casting   |         |                                       | G1       |
| Metal forming &<br>Metal Casting | Extrusion Test – Experiment Preparation and Theoretical Background<br>Sand Tests – Experimental Preparation and Theoretical Background                     | W6      | Start: 22/10/2017<br>End : 26/10/1017 | G1 & G2  |
| Metal Forming                    | Extrusion Test   | W7      | Start: 29/10/2017<br>End : 02/11/1017 | G1       |
| Metal Casting                    | Sand Tests   |         |                                       | G2       |
| Metal Forming                    | Extrusion Test   | W8      | Start: 05/11/2017<br>End : 09/11/1017 | G2       |
| Metal Casting                    | Sand Tests   |         |                                       | G1       |
| Unit 3                           |  |         |                                       |          |
| Welding Process                  | Welding – Experiment Preparation and Theoretical Background  | W9      | Start: 12/11/2017<br>End : 16/11/1017 | G1 & G2  |
|                                  | Arc and Gas welding  | W10     | Start: 19/11/2017<br>End : 23/11/1017 | G1       |
|                                  | Resistance Welding, MIG, TIG welding   |         |                                       | G2       |
|                                  | Arc and Gas welding  | W11     | Start: 26/11/2017<br>End : 30/11/1017 | G2       |
|                                  | Resistance Welding, MIG, TIG welding   |         |                                       | G1       |
| Unit 4                           |  |         |                                       |          |
| Sheet Metal Forming              | Sheet Metal Working - Theoretical and background   | W12     | Start: 03/12/2017<br>End : 07/12/2017 | G1 & G2  |
|                                  | Press Work, Blanking, Deep Drawing   | W13     | Start: 10/12/2017<br>End : 14/12/2017 | G2 &G2   |
| Lab Examination                  |  | W14     | 21/12/2017                            | G1 & G2  |

Laboratory evaluation out of 15 marks: 4 marks LAB activities, 4 marks reports, and 7 marks LAB exam.