



University of Mosul
College of engineering
Mechanical Engineering

Metallurgy laboratory

Laboratory objective:

The laboratory's work is summarized in conducting metallographic examination of metals, conducting experiments for the first, second and third stages, as well as for graduation projects and research for postgraduate students, in addition to engineering consultations

Names of the main laboratory instruments :

- 1- Optical microscopes
- 2- Electrical furnace
- 3- Universal hardness
- 4- Polisher 5- Ultrasonic test

Experiment names:

- 1-specimen preparation for microscopic examination
- 2-microscopic examination of pure metals and solid solution alloys
- 3-cooling curve and equilibrium phase diagram
- 4-correlation of a eutectic microstructures with the thermal equilibrium diagram in Pb/Sn system
- 5-plain carbon steel (eutectoid system)
- 6-cast iron
- 7-heat treatment of steel



Laboratory workers:

No	name	Functional tasks	Certificate
.1	<i>Awad Haloush Khader</i>	<i>Laboratory Supervisor</i>	<i>Master of Mechanical Engineering</i>
.2	THKRA YASIN SAEID	Laboratory technical officer	Bachelor of Mechanical Engineering
.3	Ahmed Saadoun Abdel Aziz	Laboratory experiments for the second phase	Master of Mechanical Engineering
.4	Muhammad Shaalan Abd	Laboratory experiments for the fourth stage	Master of Mechanical Engineering

.5	Zeina Maysar Abid	Laboratory experiments for the third stage	Master of Mechanical Engineering
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