



University of Mosul
College of engineering
Mechanical department

Thermal Machines Laboratory

Laboratory Aims:

The laboratory's work is summarized in conducting various experiments on the subject of internal combustion engines (petroleum and diesel) for the department's students and on topics related to those engines. In addition, the project students in the fourth stage, as well as graduate students, benefited from laboratory equipment and conducted their research experiments on it.

Apparatus:

It contains several apparatus for doing students experiments and other for demonstration only. The most important apparatus are:

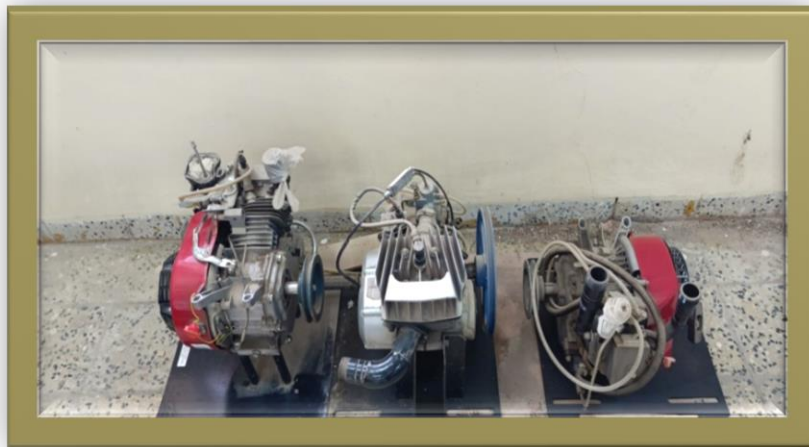
1. Modular test stand for single cylinder engines
2. Four strokes variable compression ratio engine
3. Four stroke petrol engine (spark engine)
4. Four strokes diesel engine
5. Two stroke petrol engine (spark engine)
6. Exhaust gas analyzer with No_x sensor
7. Stroboscope meter

Experiments:

1. Study the effect of the engine speed on the performance and emissions in spark ignition engine
2. Study the effect of the engine speed on the performance and emissions in compression ignition engine



1. .



Lab workers staff:

No.	name	Functional tasks	Certificate
.1	Nooraldeen Saleh KHidhir Al Eanzi	Laboratory Supervisor	Master's degree in Mechanical/Fluids

			and Thermal Engineering
.2	Waad Thanoon	Laboratory Technical Officer	Bachelor of Mechanical Engineering, Laboratory Technical Officer