
Academic Description of Department of Power Mechanics Techniques/ Engineering Technical college/Mosul

Introduction

The Department of Power Mechanic Technical Engineering is one of the five scientific departments of the Technical College of Engineering at the Northern Technical University in Mosul. The department had been established in 1998. The department awards a bachelor's degree in the field of mechanical engineering technology in three branches, namely (Renewable Energy Branch, Refrigeration and Air Conditioning Branch, Production and Automation Branch)

The department aims to prepare technical engineers specialized in the field of the three mentioned branches and have scientific and practical skills in diagnosing and repairing faults that occur during the work of the three mentioned branches. As well as the creation of competent engineers with the ability to keep pace with the rapid development in the competence of the three mentioned branches and acquire the necessary skills to develop and modernize the three mentioned branches devices. In addition to providing the graduates with the skill to install and operate various modern the three mentioned branches systems.

Mission:

Creating a distinguished theoretical and practical study environment for students by delivering valuable scientific lectures in the specialty, conducting laboratory experiments and creative scientific research, and interacting with the local and global environment in the field of working on equipment in the department's laboratories.

Objectives

The department aims to provide high-quality technical education, by keeping pace with the rapid technological developments in the world, and respond to the necessities of change in the curriculum to lay the foundations of human development so that graduates acquire skills and expertise to meet the needs of the market by adopting quality assurance and assurance. Therefore, the department aspires to graduate applied engineers familiar with the applications and modern devices in the field of the three mentioned branches and be able to:

1. Installation and operation of all types of the three mentioned branches, air conditioning and freezing equipment.
2. Contributing and supervising the maintenance of different the three mentioned branches units.
3. Design and implementation of maps for the installation and operation of modern the three mentioned branches unit.
4. Research, develop and find replacement parts for the unemployed units.

Describe the Work of the Graduate

The three mentioned branches technology department qualifies the graduate to be technical engineer who has the ability to install the new refrigeration devices and

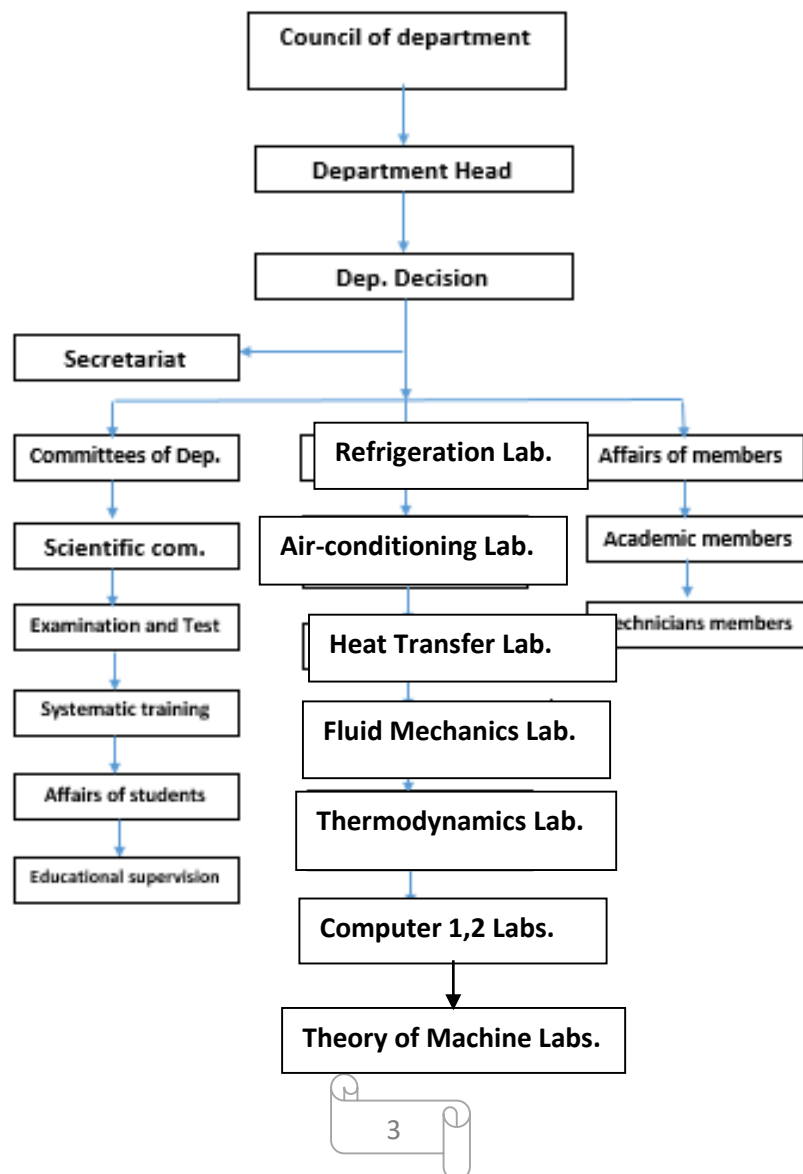
equipment, design of all types of air ducts which is necessary for Power Mechanic Technical Engineering systems operations.

Postgraduate Studies

Approval was obtained to open a master's study program in the field of thermal technology engineering for the next academic year 2022/2023 AD, noting that the study of the technical diploma program in the field of thermal technology engineering for the academic year 2020/2021 has been started.

Governance and Management

Organizational Structure for the Power mechanincs Technical Engineering with its three mentioned branches Eng. Department:



Administrative support:

The Department of Power mechanincs Technical Engineering with its three mentioned branches Engineering shall hold periodic and continuous councils of the Department at the beginning of the academic year to discuss with the faculty members and identify their problems, if any, and to survey their opinions on issues related to teaching and learning. The Power mechanincs Technical Engineering with its three mentioned branches Engineering Department establishes effective mechanisms to ensure transparency and fair practices for all in various fields:

Special Support for Students:

Students have student representation at each grade level represented by the division representative. Academic leaders engage students in making some decisions related to the educational process. Furthermore, making a continuous meeting with student to solve their problems they face through studying.

The Department of Power mechanincs Technical Engineering with its three mentioned branches Engineering is keen to ensure fairness and non-discrimination between students in terms of gender, religion or marital status. Students are assigned to small groups and distributed to laboratories fairly based on alphabetical order. There is a committee to set the schedules and exams. This committee takes the opinions of the students and ensures the fair distribution of study schedules to all groups equally in number and timing.

Special support for teachers:

There are specific procedures to ensure fairness and non-discrimination between faculty members, represented in the distribution of theoretical and practical teaching tasks to all faculty members equally and ensure the participation of all in the work of teaching as well as supervising scientific thesis for graduate studies and according to the strict scientific

specialization of each faculty member and committees are formed examiners by participate all members in the theoretical, oral and practical examinations.

Conducting and completing the annual evaluation of the teaching staff in a transparent and fair manner, and considering the complaints submitted by them and conducting them through conducting audit committees in order to create an atmosphere of brotherhood between the direct and teaching officer.

Scientific promotions are also conducted for teachers in accordance with the guidelines and instructions of the Scientific Promotions guide circulated by the Ministry and the University. The annual performance appraisals of the faculty members are according to the instructions and controls of performance evaluation circulated by the Supervisory and scientific evaluation and be clear and public for all teachers.

Academic infrastructure and facilities:

The buildings of the department in terms of design and number are in line with the needs of the institution to conduct its activities. As well as, all the required facilities which important for the student and the teaching staff are also available and included:

Number and area of different places in the department:

Avg. No. of work hours	Avg. No. Student	Area m ²	Number	Place
6	140	248	4	Classrooms
6	140	575.1	6	Educational laboratories
6	140	515	2	Technical Workshops

Administrative Offices:

Average number of administrators	Offices of administrators
2	2
Average number of teaching staff	Academic Offices
3	8

Technical equipment:

Desktop computers	Laptops	Computers with printer for sections and units	Photocopiers	screens	Data display devices	Machinery and equipment	Laboratory equipment
40	3	3	3	--	6	9	25

Faculty Members

The criterion of the faculty members is the main pillar to ensure the functioning of the academic program of the department and achieve its desired goals and development. Some tables were drawn describing the faculty members (26) teaching and working on the permanent staff of the Department of Power mechanics Technical Engineering with its three mentioned branches Engineering Techniques - College of Engineering Technology of (10) PhD and (16) master's degrees are distributed between one Professor, 7 assistant professors, 11 Lecture and 7 assistant Lecture for the academic year 2020/2021.

- Attention to the selection of faculty members is the decisive element in the success of the effectiveness of the teaching and learning process, and therefore must prepare the faculty and their qualifications sufficient to achieve the mission of the educational institution and its objectives. The selection of faculty members according to academic rules and foundations that serve the objectives of the institution and its development and this requires the existence of regulations and instructions clarifying the responsibilities and duties of the faculty members in terms of quorum according to scientific titles and the

establishment of facilities and appropriate support to attend conferences and workshops to develop their skills and abilities and provide a research environment.

- The department is keen to provide many opportunities for the development of faculty members to improve their teaching skills, which reflects positively on the educational process in the department through:

- The existence of an annual training plan for the department includes different disciplines and the announcement of various courses in the department and identify the training needs of faculty members through the work of questionnaires.

- The Department encourages faculty members to attend workshops, seminars and conferences inside or outside Iraq.

- No objection from the Department to provide all facilities for the trainee of the halls, materials and training means.

- The department follows the standards set by the Ministry of Higher Education / Supervision and Evaluation Authority to evaluate the performance of faculty members and the adoption of the principle of transparency and fairness during the evaluation. The quality assurance department in the college follows the instructions issued and the audit of data and documents in addition to directing the scientific departments to make questionnaires for the views of students in the course and member Teaching staff.

- The Department urges and encourages the provision of the necessary facilities and the application of promotion systems for faculty members through the adoption of scientific promotion instructions circulated by the Ministry and the University in accordance with the manual of scientific promotions for the promotion of faculty members, which take into account the evaluation of teaching and scientific research two basic criteria for promotion, in addition to service activities the society.