

# **Guidance Study Plan for Master's Program in Medical Laboratory Sciences at the Department of Pathology, Microbiology, and Forensic Medicine - School of Medicine – the University of Jordan**

## **Thesis Track**

This plan consists of (33) credit hours.

Compulsory courses: (15) credit hours

### **First Year**

#### **First Semester: 9 Credit Hours**

1. Diagnostic Microbiology – Compulsory – 3 credits
2. Diagnostic Molecular Biology – Elective – 3 credits
3. Scientific Research Methods – Compulsory – 3 credits

#### **Second Semester: 9 Credit Hours**

4. Diagnostic Bacteriology – Elective – 3 credits
5. Diagnostic Immunology and Serology – Compulsory – 3 credits
6. Diagnostic Parasitology – Elective – 3 credits

### **Second Year**

#### **First Semester: 6 Credit Hours**

7. Clinical Chemistry – Compulsory – 3 credits
8. Diagnostic Hematology – Compulsory – 3 credits
9. Biostatistics – Elective – 3 credits
10. Pathology – Elective – 3 credits
11. Epidemiology of Infectious Diseases – Elective – 3 credits

#### **Second Semester: 6 Credit Hours**

12. Blood Banking and Transfusion Medicine – Elective – 3 credits
13. Diagnostic Virology – Elective – 3 credits
14. Molecular Genetics – Elective – 3 credits
15. Master's Thesis – Compulsory – 9 credits

## **Comprehensive Track**

This plan consists of (33) credit hours.

Compulsory courses: (24) credit hours

### **First Year**

#### **First Semester: 9 Credit Hours**

1. Diagnostic Microbiology – Compulsory – 3 credits
2. Diagnostic Molecular Biology – Elective – 3 credits
3. Scientific Research Methods – Compulsory – 3 credits

#### **Second Semester: 9 Credit Hours**

4. Diagnostic Bacteriology – Compulsory – 3 credits
5. Diagnostic Immunology and Serology – Compulsory – 3 credits
6. Diagnostic Parasitology – Compulsory – 3 credits

### **Second Year**

#### **First Semester: 6 Credit Hours**

7. Clinical Chemistry – Compulsory – 3 credits
8. Diagnostic Hematology – Compulsory – 3 credits
9. Biostatistics – Elective – 3 credits
10. Pathology – Elective – 3 credits
11. Epidemiology of Infectious Diseases – Elective – 3 credits

#### **Second Semester: 6 Credit Hours**

12. Blood Banking and Transfusion Medicine – Compulsory – 3 credits
13. Diagnostic Virology – Elective – 3 credits
14. Molecular Genetics – Elective – 3 credits
15. Master's Thesis – Compulsory – 9 credits