M.Sc. in Medical Sciences – Drug Development and Application (Non-Thesis Track) | 2024-2025

Degree Awarded: M.Sc. in Medical Sciences – Drug Development and Application

General Overview

Master's in Medical Product Development and Regulatory Science (Drug Development and Application) – M.Sc.

Faculty of Medical and Health Sciences, Tel Aviv University

Program Overview

The M.Sc. program in Medical Product Development and Regulatory Science (Drug Development and Application) offered by the Faculty of Medical and Health Sciences at Tel Aviv University is an innovative and pioneering program designed to bridge the gap between advanced scientific innovations and the regulatory landscape governing medical product development, approval, and post-market monitoring. The program, led by Dr. Michal Roll and Prof. Noam Shomron, is conducted in collaboration with the Israeli Ministry of Health and the 8400 Health Network. It equips students with essential knowledge and skills to navigate the complexities of both local and global regulatory frameworks.

Curriculum and Course Topics

The curriculum combines rigorous academic training with practical insights from industry experts, providing a comprehensive understanding of the entire lifecycle of medical products. Courses cover diverse topics, including:

- Drug development
- Medical device development
- Pharmacovigilance
- Intellectual property
- Artificial intelligence in medical product development
- Clinical trials
- Global regulatory systems

Students participate in seminars, regulatory writing workshops, and internship opportunities tailored to their career aspirations.

Program Duration and Study Format

The program spans two years, with courses held on Tuesdays during the academic year and several intensive courses scheduled during the summer semester.

Admission Requirements

- A bachelor's degree in sciences with a minimum final grade of 80.
- Successful completion of an admission interview.

- Some students may be required to complete prerequisite courses before or during the program to meet the eligibility criteria set by the Graduate School of the Faculty.

Language of Instruction

Approximately half of the courses are taught in Hebrew, while the remaining courses are in English.

Program Tracks

- **Research Track:** Students engage in scientific research projects, culminating in a master's thesis under the supervision of faculty members. Students in this track may be eligible for competitive living stipends.
- **Internship Track:** Students complete an industry or Ministry of Health internship, gaining hands-on experience in regulatory affairs. The internship is arranged in collaboration with the program directors.

Application Process

Applicants should select "Health Sciences Research" (0103) during registration and indicate "Drug Development and Application" (0120) on Form 24.

Program Directors

- **Prof. Noam Shomron**
- **Dr. Michal Roll**

For further inquiries, please contact the Graduate School Office.

Program Structure

Course Type	Credits (ECTS)
Faculty Core Courses	8
Track Elective Courses	8
Internship	6
Track Core Courses	21
Total Credits Required	**43**

Curriculum Structure

For students beginning their studies in the 2024-2025 academic year

Students who started the program in previous years can find the relevant curriculum structure under the "Previous Syllabi" section on this page.

MSc in Therapeutics Development and Regulatory Science (Drug Development and Application), Faculty of Medical and Health Sciences, Tel Aviv University

Program Overview: The MSc in Therapeutics Development and Regulatory Science, offered by the Faculty of Medical and Health Sciences at Tel Aviv University, is a pioneering program designed to bridge the gap between cutting-edge scientific innovations and the intricate regulatory landscape governing the development, approval, and post-marketing surveillance of medical products. Spearheaded by Dr. Michal Roll and Prof. Noam Shomron in collaboration with the Israeli Ministry of Health and 8400 Health Network, this program equips students with the essential knowledge and skills required to navigate the complexities of therapeutic development and regulatory affairs in both local and global contexts.

Curriculum Highlights: The curriculum blends rigorous academic training with practical insights from industry experts, offering a comprehensive understanding of the entire lifecycle of medical products. Courses cover diverse topics such as drug development, medical device regulations, pharmacovigilance, intellectual property, AI in healthcare, clinical trials, and global regulatory systems. With a focus on practical application, students engage in specialized seminars, regulatory writing workshops, and internship opportunities tailored to their career aspirations.

Program Structure:
Duration: Two years
Classes: Held one day a week (Tuesdays) throughout the academic year, with select courses scheduled during the summer semester.
Additional Requirements: Some supplementary courses may be necessary to fulfill the admission criteria set by the Faculty's School of Graduate Studies.
Language of Instruction: Half of the courses are in Hebrew and the others in English.

Tracks:
Research Track: Students pursue in-depth research projects culminating in an MSc thesis under the guidance of esteemed faculty members. Exceptional students may be eligible for scholarships based on academic merit.
Internship Track: Students undertake immersive internships within industry or governmental agencies, gaining hands-on experience in regulatory affairs. Internships are arranged in collaboration with program heads and authorized placements.

Admissions: Prospective students are evaluated based on academic performance (minimum Bachelor's degree GPA of 80) and a formal interview. Applicants should select "Health Science Research" (0103) during enrollment and specify "Therapeutics Development and Regulatory Science" (0120) on Form 24.

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Information about the program can be found here