



ALEPH UNIVERSITY



School of Basic Science and Engineering

Master of Science in Regulatory Affairs and Quality Assurance in Medical Technologies

PROGRAM DESCRIPTION

The Master of Science in Regulatory Affairs and Quality Assurance in Medical Technologies provides students with the knowledge and skills necessary to navigate the complex regulatory landscape and ensure compliance with applicable laws, regulations, and standards in the devices and life sciences industry.

The program focuses on the study of regulatory and quality requirements related to the development, approval, commercialization, and manufacturing of products in various industries, such as pharmaceuticals, biotechnology, medical devices, food, and cosmetics. Designed to equip students with the knowledge and skills needed to understand and comply with complex regulatory environments, the program ensures that products meet regulatory and quality requirements, as well as relevant laws and regulations.

Students have the opportunity to enhance their understanding of international regulatory laws and procedures while acquiring the leadership skills necessary for success in the fields of regulatory science and quality assurance. Additionally, the program offers a specialization in Medical Device Regulatory Affairs of 30 credits within the Master of Science in Medical Devices, Regulatory Affairs, and Health Information Technologies. With this concentration in Medical Devices, Aleph University's prepares interdisciplinary professionals to address current and future challenges and opportunities in the market.



Program Objectives

- Recognize the legal, regulatory, and quality assurance requirements for all stages of devices.
- Demonstrate the ability to apply guidelines and test all facets of device clinical trials.
- Navigate the complex regulatory landscape and manage compliance with applicable laws, regulations, and standards in the devices and life sciences industry.

Career Opportunities

Obtaining a Master of Science in Regulatory Affairs and Quality Assurance in Medical Technologies positions you to take on crucial roles in quality assurance and regulatory compliance in various industries. Here are some job opportunities associated with this field of study:

- **Regulatory Compliance Specialist:**

- Work on interpreting and implementing industry-specific regulations and standards.
- Ensure company operations and products comply with relevant laws and standards.

- **Quality Assurance Manager:**

- Oversee and manage quality control programs.
- Develop and implement policies and procedures to ensure product or service quality

- **Regulatory Documentation Specialist:**

- Prepare and submit regulatory documents to relevant government agencies.
- Ensure documentation meets regulatory requirements.

- **Quality and Compliance Auditor:**

- Conduct internal and external audits to ensure compliance with regulations and quality standards.
- Develop and execute corrective action plans as needed.

- **Process Validation Specialist:**

- Validate manufacturing processes and systems to ensure consistency and compliance with specific regulations.
- Collaborate closely with production and development teams.

- **Good Manufacturing Practice (GMP) Compliance Manager:**

- Ensure facilities and processes comply with GMP and other applicable regulations.
- Implement and maintain quality systems according to regulations.

- **Pharmacovigilance Specialist:**

- Monitor and report adverse effects and safety issues related to pharmaceutical and medical products.
- Ensure the company complies with pharmacovigilance requirements.

- **Regulatory Affairs Consultant:**

- Provide consulting services to companies seeking advice on regulatory and compliance issues.
- Stay updated on regulatory changes and assist companies in adapting.

- **Environmental Compliance Specialist:**

- Ensure company operations comply with environmental and regulatory requirements.
- Participate in risk assessment and implementation of sustainable practices.

- **Regulatory Business Development Manager:**

- Identify market opportunities and business development strategies based on existing and emerging regulations.
- Collaborate with research and development teams to ensure the commercial viability of new products.

These job opportunities are applicable across various industries, such as pharmaceuticals, medical devices, food and beverages, chemicals, and more. The growing importance of complying with regulations and quality standards has increased the demand for professionals with expertise in regulatory affairs and quality assurance.

Learning Methodology

Aleph University employs an active learning environment that fosters critical thinking through interaction within the learning community. A variety of pedagogical learning scenarios are promoted, including self-study, idea exchange, small group work, problem-solving, debates, and research seminars. Students have access to various sources of information, learning alternatives, and activities to enhance their learning experience.

The teaching and learning approach include a traditional tutorial method enriched with practical learning approaches such as the Harvard Case Study Method and Project-Based Learning.

Harvard Case Study Method

This method employs the discussion of real-life situations that professionals face in their workplace. It requires student preparation and group work with their peers.

Project-Based Learning

This method fosters a deep conceptual understanding of abstract concepts through class projects. Students will actively develop their understanding by learning and applying key class concepts to solve challenging everyday problems.

Admissions Process

The admission criteria at Aleph University are based on the institutional mission, goals, academic merit, and the Florida Commission for Independent Education rules for the acceptance and enrollment of students in higher education academic programs. Aleph University's admissions policy assures that only students who are reasonably capable of completing and benefiting from the educational offerings are enrolled. The admissions process requires an admission interview of prospective students to evaluate their ability to achieve and benefit from the program.

The general admission and readmission requirements are as follows:

- **Application:**

Online admission applications must be received by the Admissions Department..

- **Identification Document:**

Copy of a government-issued identification document.

- **Fee Payment:**

A non-refundable application fee must be paid with the Admission Application.

- **Transcripts:**

Official academic records from all attended educational institutions must be submitted according to the application instructions. To be admitted to a Master's program, the applicant must have completed a bachelor's degree from an appropriately accredited academic institution, having obtained a minimum GPA of 3.0.

- **Personal Statement:**

A statement of purpose explaining why the chosen academic program would enable the applicant to achieve their professional goals.

- **Interviews:**

All applicants must have an interview with the Director of Admissions to better understand their interests, goals, and personalities.

- **English Proficiency:**

International students must meet language proficiency requirements.

Language Proficiency Requirements: To enroll at Aleph University, prospective students whose first language is not English must possess college-level English ability.

List of Courses

Concentrations	Course Type	Code	Course Name	Credits
GENERAL REQUIREMENTS	Core	HUM 500	ETHICS AND VALUES SEMINAR	2
	Core	ENT 510	LEADERSHIP, TEAMWORK AND SUCCESS PRINCIPLES SEMINAR	2
	Core	RAQ 500	INTRODUCTION TO REGULATORY AFFAIRS	2
	Core	RAQ 510	PHARMACEUTICAL AND MEDICAL DEVICE REGULATIONS	2
	Core	RAQ 520	QUALITY MANAGEMENT SYSTEMS	2
	Core	RAQ 530	RISK MANAGEMENT	2
	Core	RAQ 532	PRODUCT SAFETY AND PERFORMANCE TESTING	2
	Core	RAQ 600	MEDICAL PRODUCT DEVELOPMENT PROCESS	2
	Core	RAQ 514	MEDICAL PRODUCT LABELING REGULATIONS	2
	Core	RAQ 710 / 720	INTERNSHIP OR CAPSTONE PROJECT	2
MEDICAL DEVICE TRACK	Elective	BME 611	MEDICAL DEVICES	2
	Elective	BME 630	ENGINEERING COMPLIANCE	2
	Elective	RAQ 610	DESIGN CONTROLS	2
	Elective	BME 612	MEDICAL DEVICE REGULATIONS	2
	Elective	RAQ 630	510(K) PREMARKET NOTIFICATION PROCESS	2
PHARMACEUTICAL TRACK	Elective	RAQ 640	PHARMACEUTICAL REGULATIONS	2
	Elective	RAQ 645	CLINICAL DEVELOPMENT OF DRUGS AND BIOLOGICS	2
	Elective	RAQ 650	BIOSTATISTICS AND CLINICAL TRIAL DESIGN	2
	Elective	RAQ 655	FOOD REGULATIONS	2
GENERAL	Elective	RAQ 660	REGULATORY WRITING AND COMMUNICATION	2
	Elective	RAQ 665	POST MARKET SURVEILLANCE AND ADVERSE REPORTING	2
	Elective	RAQ 670	CLINICAL EVALUATION PLAN AND REPORTING	2

1 elective is required*



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