



Online
Self-Paced



Language:
English

Course Fees:
USD 8000
(exclusive of taxes
and bank charges)



Online, 24-month Program
30 Hours/week

Master of Science in Pharmaceutical Management with Specialization in Pharmaceutical Manufacturing

To be Launched



About the Course

The pharmaceutical sector is experiencing rapid growth, driven by expanding healthcare needs, technological advancements, evolving regulatory frameworks, and increasing manufacturing complexity. The global pharmaceutical market was valued at approximately USD 1.5 trillion and is forecasted to exceed USD 1.7 trillion by 2030, supported by increasing healthcare expenditure, rising prevalence of chronic diseases, advancements in biotechnology, expansion of biologics and speciality medicines, and the integration of artificial intelligence in drug discovery and manufacturing. *

This sustained industry expansion has created significant career opportunities across pharmaceutical management and manufacturing domains. However, the industry continues to face a critical skills gap, with increasing demand for professionals who possess integrated expertise in pharmaceutical operations, regulatory compliance, manufacturing processes, quality systems, and business management.

The Master of Science in Pharmaceutical Management with Specialization in Pharmaceutical Manufacturing by Empower School of Health, in collaboration with UNITAR (United Nations Institute for Training and Research), addresses this by offering a comprehensive understanding of industry operations, regulatory compliance, manufacturing systems, quality frameworks, and strategic decision-making tailored to the pharmaceutical sector.

This two-year online programme is both accessible and globally relevant, especially for professionals seeking advanced career growth. It equips learners with the knowledge to manage pharmaceutical value chains, ensure GMP compliance, optimize production, and drive innovation. Graduates will gain critical skills for leadership roles, career advancement, and success in the global pharmaceutical industry.

Course Objectives

On successful completion of this Master's programme, students will be able to:

- Develop a strong foundation in pharmaceutical management, including strategic planning, communication, marketing, and decision-making within the industry.
- Analyse medicines policy, regulatory frameworks, and drug approval processes, ensuring alignment with global compliance standards.
- Utilise and integrate principles of health supply chain management, pharmaceutical financing, and data-driven decision-making to support efficient healthcare delivery.
- Understand end-to-end pharmaceutical manufacturing, including raw materials, facility design, dosage forms, and scale-up of production processes.
- Enforce GMP principles, pharmaceutical quality systems, validation, sterile and aseptic manufacturing, and compliance in operations.
- Integrate plant management and operational excellence principles, including production planning, resource optimization, Health, Safety, and Environment (HSE), and continuous improvement in manufacturing environments.

Eligibility Criteria



A bachelor's degree in pharmacy, healthcare management, or related fields.



Professionals seeking to broaden their skill sets for continued education and career advancement.

*Ken Research. (n.d.). Business consulting & market insights.



Why Choose the Course

- Comprehensive pharmaceutical knowledge covering manufacturing, management, quality assurance, regulatory compliance, and supply chain operations.
- Career advancement opportunities for leadership, operations, and managerial roles in the pharmaceutical industry.
- Diverse job opportunities across pharmaceutical manufacturing, management, quality, regulatory affairs, and pharmaceutical management.
- Application-based learning through real-world case studies, industry scenarios, and assignments.
- Global perspective on international regulations, GMP standards, and pharmaceutical industry best practices.
- Flexible and accessible program designed for working professionals and learners seeking balanced study options.
- Industry-relevant curriculum aligned with current trends in pharmaceutical manufacturing, operations, and regulatory expectations.

Structure of the Master's Programme

The master course comprises 24 online modules, including year-end assessments, structured across two academic years and to be completed over a duration of 24 months.

Course Modules

Year 1 - Pharmaceutical Management Focused

- 1 Introduction to Pharmaceutical Management
- 2 Strategic Management in Pharmaceutical Industry
- 3 Communication Skills in Pharmaceutical Industry
- 4 Pharmaceutical Marketing
- 5 Health Supply Chain in Pharmaceutical Industry
- 6 Medicines Policy
- 7 Research in Pharmacy Practice
- 8 Medicine Regulation
- 9 Pharmacoinformatics
- 10 Fundamentals of Pharmaceutical Manufacturing
- 11 Pharmaceutical Financing Mechanisms
- 12 Research Project/Report writing

Year 2 - Pharmaceutical Manufacturing Focused

- 13 Introduction to Pharmaceutical Manufacturing
- 14 Pharmaceutical Raw Materials and Packaging Materials
- 15 Pharmaceutical Engineering, Utilities, and Facility Design
- 16 Solid Dosage Forms
- 17 Liquid and Semi-Solid Dosage Forms
- 18 Novel Drug Delivery Systems
- 19 Sterile and Aseptic Manufacturing
- 20 Good Manufacturing Practices (GMP)-Principles and Compliance
- 21 Pharmaceutical Manufacturing Quality, Compliance, and Validation Systems
- 22 Manufacturing Authorization and Regulatory Submissions for Medicinal Products
- 23 Pharmaceutical Plant Management and Manufacturing Operations
- 24 Research Project/Report writing

Key Advisors and Faculty



Prof. Paul Lalvani
Founder and Executive Director,
Empower School of Health, Geneva



Mr. Alex Mejia
Director of the Division for
People and Social Development,
UNITAR, Geneva



Prof. Denis Broun, M.D.
Pharmaceutical and Supply Chain
Expert, Empower School of Health,
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**Dr. Florence Duperval
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Former Minister of Health, Haiti
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Prof. Paul Spivey
Former Fellow, Royal Pharmaceutical
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Dr. Janet Krska, Ph.D.
Former Professor of Clinical and
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of Pharmacy, Kent, UK & Guest Faculty,
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**Ms. Caroline Getrude
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Head Licensing and Enforcement
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Dr. Roseann St. Rose, Ph.D.
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Ms. Kate Kikule
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Dr. Robin Gauld, Ph.D.
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Mr. Brian Porter
Adjunct Professor at UIC and
Elmhurst University; Communication,
Marketing and Project Management
Expert, US & Adjunct Faculty,
Empower School of Health, Geneva



Dr. Harpreet Kaur, Ph.D.
Associate Professor,
Empower School of Health,
Geneva

Graduation Ceremony

The graduation ceremony is conducted in a hybrid mode, allowing graduates to participate either in person at the UNITAR Headquarters in Geneva or online from different parts of the world. The event celebrates academic achievements while providing opportunities for networking, alumni engagement, and interaction with faculty and peers.



About us



Empower School of Health is a global health academic research and capacity-building institute dedicated to empowering individuals, institutions, and communities. With a diverse team of health professionals, designers, and technology experts, Empower School of Health has delivered impactful global health courses to learners from more than 40 countries and 250+ organizations, working alongside UN agencies, Ministries of Health, public health organizations, international NGOs, and donor agencies.

Established in 1965 by a UN resolution, the United Nations Institute for Training and Research (UNITAR) is an autonomous body dedicated to enhancing the effectiveness of the United Nations through training and research. As a key partner of Empower School of Health, UNITAR strengthens the learners' experience by providing a structured virtual internship that enables the application of knowledge in real-world institutional settings. The partnership with UNITAR also prioritises accessibility, offering scholarships with a focus on women and professionals from government and civil society organisations in low- and middle-income countries.



The International Pharmaceutical Federation (FIP) is a global body representing pharmacy, pharmaceutical sciences and pharmaceutical education. Through its 151 national organisations, academic institutional members and individual members, FIP represents over four million pharmacists, pharmaceutical scientists and pharmaceutical educators around the world. The FIP Seal is awarded to professional development programmes that align with the FIP mission to advance pharmacy globally, which serves as a mark of quality and trust.

Empower is accredited by the Accreditation Service for International Schools, Colleges & Universities (ASIC). The institution has been awarded Premier status with ASIC for its commendable areas of operation. ASIC is accredited by UKVI in the UK, a member of the CHEA International Quality Group (CIQG) in the USA and listed in their international directory, a member of the BQF (British Quality Foundation) and an institutional member of EDEN (European Distance and E-Learning Network).



FIBAA is recognised by Germany's Accreditation Council and Switzerland's HEdA (The Higher Education Funding and Coordination Act), the European Quality Assurance Register (EQAR) and the European Association for Quality Assurance in Higher Education (ENQA). Empower Swiss, SARL (Empower School of Health) is awarded the FIBAA quality seal for Excellence in Digital Education.

Our Alumni are Working at:



To be Launched



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