



**International Institute of Health
Management Research**



icmr
INDIAN COUNCIL OF
MEDICAL RESEARCH
Serving the nation since 1911

Online PG Certificate Programme–AICTE Approved Post Graduate Certificate in Logistics and Supply Chain Management

(with Specialization in any one)

- **Pharmaceutical Supply Chain Management**
- **Comprehensive Vaccine Management**
- **Medical Device Supply Chain Management**

About the Programme

Overview

The Online Post Graduate (PG) certificate programme is designed to equip students & professionals with the essential knowledge and practical skills needed for a career in **Logistics and Supply Chain Management (with industry relevant specialization)**. The programme addresses the growing need for specialized professionals who can navigate the complex, regulated, and critical nature of healthcare logistics and supply chain management.

Post Graduate Certificate in Logistics and Supply Chain Management is vital for timely, efficient, and safe delivery of medical products—pharmaceuticals, vaccines and medical devices to hospitals & health care institutions. Last mile delivery of healthcare products are important for positive health outcomes in patients. The programme's structure combines a foundational knowledge of healthcare supply chain fundamental principles and includes a specialized focus relevant to the healthcare industry's demands for skilled professionals. At the end of the programme the graduates will be able to contribute in optimizing healthcare operations, reducing costs, and improving patient outcomes.

Learning Objectives

On completion of the programme the students will be able to understand the fundamental concepts and principles of healthcare supply chain management and regulatory framework governing healthcare supply chains. The students will gain insights in applying strategic planning and sourcing techniques in healthcare logistics and evaluate various procurement methods. The programme students will be enabled to undertake scientific inventory control and design efficient warehousing, transportation, and distribution networks. The programme will provide insights into utilizing information systems and data analytics for decision-making and assessment and mitigation of risks related to quality, safety, and security.

The programme provides an opportunity for the students to **Specialize** in one of the following three areas: **Pharmaceutical Supply Chain Management, Comprehensive Vaccine Management or Medical Device Supply Chain Management**. The students will conduct a Capstone project or independent research and present the findings in their chosen area of specialization through a dissertation.

Course Outcomes

1. Understand the foundational concepts and components of healthcare supply chain.
2. Apply scientific inventory control techniques and procurement strategies to optimize stock levels and reduce costs in healthcare setting.
3. Analyze the impact of current laws and regulations on the healthcare supply chain identifying potential compliance risks and solutions.
4. Evaluate the effectiveness of supply chain through information systems and data analytics tools for improving operational efficiency and decision-making.
5. Design a secure and efficient warehousing and transportation network for a specific healthcare product.
6. Synthesize knowledge to formulate and defend a strategic solution within their chosen area of specialization (e.g., Pharmaceutical supply chain management, comprehensive vaccine management, medical device management)

Programme Structure

Semester 1 (6 months)	Fundamentals of Healthcare Supply Chain Management (Online)	22 weeks
	Contact Class & Examinations (Physical Mode)	1 week
Semester 2 (6 months)	Specialised Courses Elective (online) • Pharmaceutical Supply Chain Management • Comprehensive Vaccine Management • Medical Device Management	18 weeks
	Dissertation	4 weeks
	Contact Class & Examinations	1 week

Semester 1 : Fundamentals of Healthcare Supply Chain Management

- 1. Healthcare Supply Chain Management Overview:** Introduces the structure and critical functions of the healthcare supply chain.
- 2. Laws and Regulations:** Provides an overview of legal and compliance framework that governs the healthcare supply chain.
- 3. Planning and Sourcing:** Provides insights in the strategic process of forecasting demand and vendor relationship.
- 4. Procurement:** Explains the procurement methods and international sourcing and ethical considerations in acquiring healthcare supplies.
- 5. Scientific Inventory Control:** Provides scientific knowledge in optimizing inventories and maintain stocks to prevent shortages and reduce costs.
- 6. Warehousing and Transportation:** Discusses the logistics of storing and moving medical products with a focus on safety and security.
- 7. Financial Management:** Explains budgets and costs analysis within the supply chain.
- 8. Network Design:** Provides insights in network design through strategic layout and optimization of distribution channels.
- 9. Supply Chain Information Systems and Data Analytics:** Describes the role of technology and data in improving supply chain performance.
- 10. Quality, Safety, and Risk Management:** Highlights strategies for ensuring healthcare product quality, patient safety, and mitigating risks.

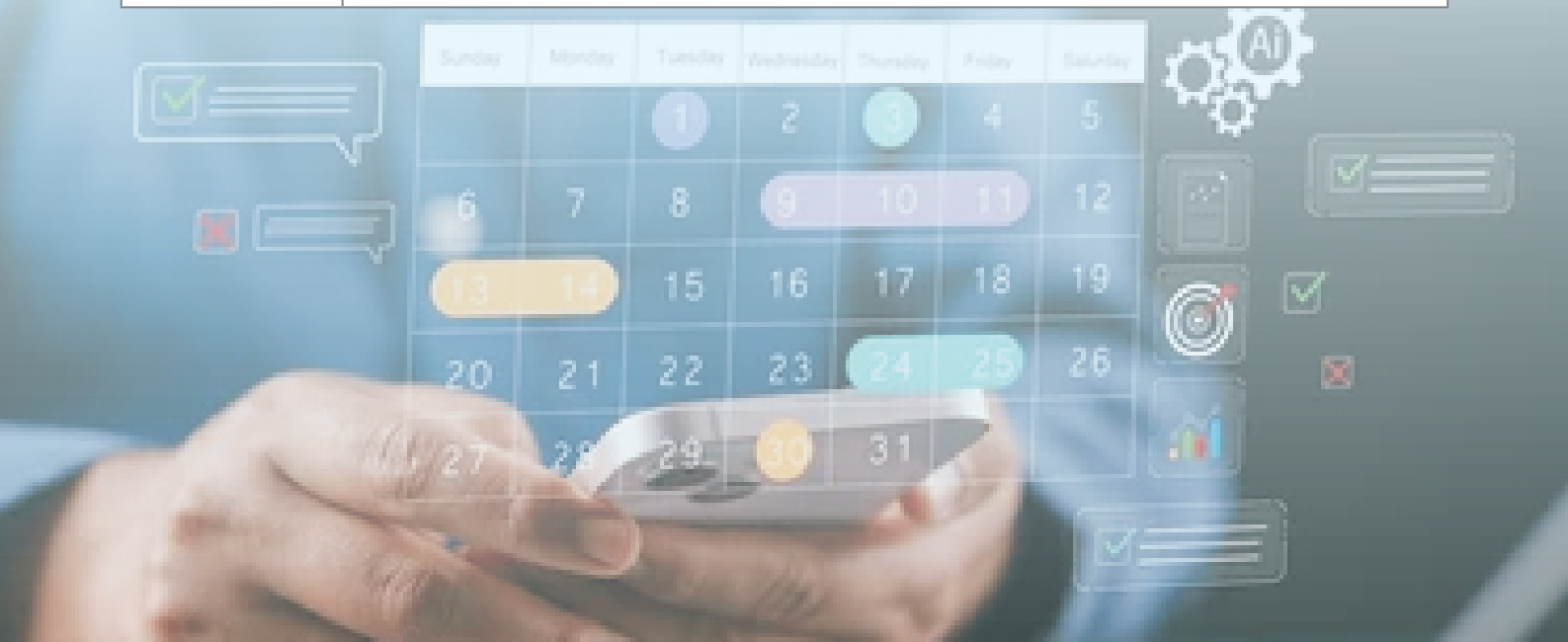
Semester 2 : Specialised Courses Elective

- Pharmaceutical Supply Chain Management:** The specialization focuses on the management of pharmaceutical supply chains. It includes subjects on business processes, retail pharmacy operations, managing pharmaceutical stocks and controlled substances, ensuring safety and traceability to comply with strict industry regulations.

- **Comprehensive Vaccine Management:** The course is dedicated to the critical logistics of maintaining a precise, temperature-controlled environment for vaccines. It addresses the unique challenges of global distribution and last mile delivery of vaccines without compromising efficacy.
- **Medical Device Supply Chain Management:** The specialization explores the logistics of low to high-value and often complex medical device supply chains. The course covers regulatory compliance for devices, managing product recalls, and handling the specific requirements for maintenance and servicing.

Academic Calendar

Semester 1: Fundamentals of Healthcare Supply Chain Management (30 credits)	
Week 1	Introduction to the Course
Week 2-3	Healthcare supply chain management and overview
Week 4-5	Governance, law and regulations
Week 6-7	Planning and sourcing
Week 8-9	Procurement
Week 10-11	Inventory management
Week 12-13	Financial management
Week 14-15	Designing supply chain network
Week 16-17	Warehousing and transport
Week 18-19	Supply chain management information systems and analytics
Week 20-21	Quality control and benchmarking
Week 22-23	Preparatory break
Week 24	Examinations and contact classes
Week 25	Midterm break
Semester 2: Specialised Course- Elective (24 credits)	
Week 26-43	Specialized elective course (15 credits) • Pharmaceutical supply chain management • Comprehensive vaccine management • Medical device supply chain management
Week 44-47	Dissertation (9 credits)
Week 48	Preparatory break
Week 49	Examinations



Elective Specialised Courses

Course 1: Pharmaceutical Supply Chain Management	
Week 27-28	Module 1- Pharmaceutical Supply Chain: An Overview
Week 29-30	Module 2- Laws and Regulations for Pharmaceuticals
Week 31-32	Module 3- Planning and Sourcing in Pharmaceutical Supply Chain
Week 33-34	Module 4- Strategic Procurement for Pharmaceuticals
Week 35-36	Module 5- Scientific Inventory Control
Week 37-38	Module 6 – Business Processes and Marketing
Week 39-40	Module 7- Supply Chain Network, Warehousing and Transportation
Week 41-42	Module 8- Pharmacy Operations
Week 43-44	Module 9- Pharmaceutical Supply Chain Information Systems
	Module 10- Quality and Risk Management in Pharmaceutical Supplies

Course 2: Comprehensive Vaccine Management	
Week 27-28	Module 1- Health System Building Blocks and components of Immunization Supply Chain System
Week 29-30	Module 2- Global and National Guidelines for Immunization Supply Chain System
Week 31-32	Module 3- National Immunization Schedule(NIS) and Planning programme for NIS
Week 33-34	Module 4- Strategic Vaccine and CCE Procurement
Week 35-36	Module 5- Effective Vaccine Management Initiative 2.0 and Continuous Improvement Plan (CIP)
Week 37-38	Module 6 – Financial Management for Vaccine Supply Chain
Week 39-40	Module 7- Supply Chain Redesign and last mile delivery practice
Week 41-42	Module 8- Human Resource and Capacity Building for the Immunization Supply Chain
Week 43-44	Module 9- Tools and Information Management Systems to Manage Immunization Supply Chain Systems
	Module 10- Global tools to assess the performance of Immunization supply chain Systems

Course 3: Medical Device Supply Chain Management	
Week 27-28	Module 1- Medical Device Management - An overview
Week 29-30	Module 2- Governance for Medical Devices Supply Chain Management
Week 31-32	Module 3- Medical Devices & Equipment - Planning & Selection
Week 33-34	Module 4- Procurement Guidelines for Medical Devices & Equipment
Week 35-36	Module 5- Medical Device & Equipment Inventory Management
Week 37-38	Module 6 – Financial Concepts for Management of Medical Devices & Equipment
Week 39-40	Module 7- International Trade
Week 41-42	Module 8- Medical Equipment Management
Week 43-44	Module 9- Medical Equipment Management Information Systems
	Module 10- Medical Devices & Equipment Quality Management programme

Fee Structure

Program	Post Graduate Certificate in Logistics and Supply Chain Management
Institution	IIHMR Delhi
Program Fee	Rs. 50,000
Payment Plan	One time payment on registration– Rs 50,000 or Two Instalments plan – Rs 27,000 each on registration and before commencement of 2nd Semester
Ideal For	Professionals seeking to enhance skills in logistics and supply chain management
Academic Bank of Credits	Register for 54 Academic Bank of Credits as per UGC guidelines

For Any Queries/Information Contact:

Ms. Suman Lata - Admission Counsellor

E-mail: sumanlata@iihmrdelhi.edu.in

Mobile No. 7428895911

International Institute of Health Management Research

Plot No.3, HAF Pocket, Sector 18A, Phase-II

Dwarka, New Delhi-110075

Ph: 011 30418900 | Website: <https://www.iihmrdelhi.edu.in>

