

Healthcare Informatics

Prepared by Dr. Hesham Mousli

MHA 621
Introduction Lecture

Introduction

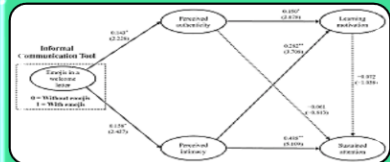




Teaching Team



Course Intended Outcomes



Course Structure



Mutual Expectations

Teaching Team

- This Course Will Be Presented By: **Dr. Hesham Mousli.**
- PhD. in Biomedical Informatics & Medical Statistics from Alexandria University.
- Dip. Hospital Management & Operational Excellence from the American University in Cairo (AUC).
- Dip. Healthcare Quality from American University in Cairo (AUC).
- Dip. Clinical & Hospital Pharmacy from Alexandria University.
- Certificate in Infection Prevention & Control (IPC) from the American University in Cairo (AUC).
- Adj. Lecturer of Pharmacy Practice, Arab Academy for Science & Technology (AAST).
- Instructor of Logistics of Hospital Management, Arab Academy for Science & Technology (AAST).
- Extensive experience in Healthcare Industry.

Course Intended *Objectives*

➤ **This course aims to provide you with:**

- 1. An Overview of Informatics in Healthcare:**
Understand core concepts and applications of healthcare informatics.
- 2. Effective and Ethical Use of Data and Information:**
Learn principles of ethical data use and legal frameworks.



Course Intended *Objectives*

➤ This course aims to provide you with:

3. **Electronic Health Record Systems & Healthcare Information Systems:** Explore functionalities, challenges, and best practices for EHR systems.
4. **Strategic Planning, Project Management, and Health Information:** Understand the role of strategic planning and project management in health IT.



Course Intended *Objectives*

➤ This course aims to provide you with:

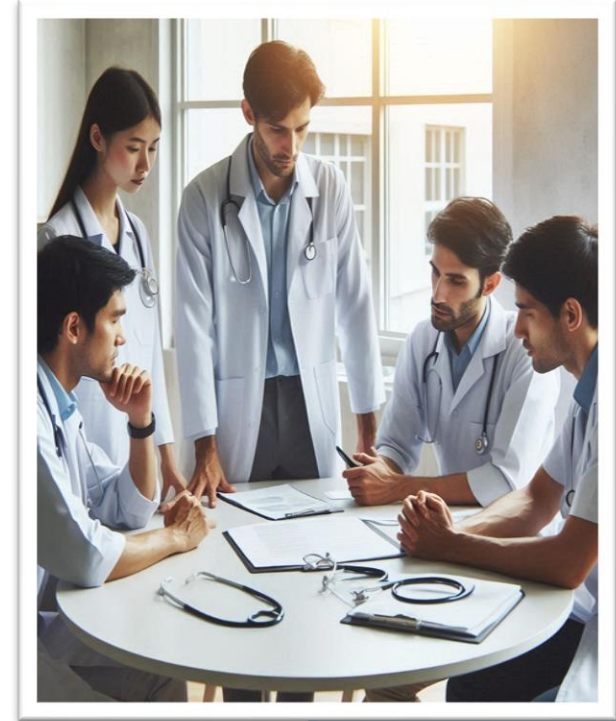
5. **Technology Selection:** Learn criteria for evaluating and selecting health IT systems.
6. **System Implementation, Maintenance, and Evaluation:** Study phases of system implementation and evaluation processes.
7. **Workforce Development:** Explore training needs and change management strategies for IT adoption.



Course Intended *Objectives*

➤ **This course aims to provide you with:**

- 8. Information Security and Confidentiality:** Learn security measures and compliance protocols for protecting health data.
- 9. Information Networks and Information Exchange:** Explore health information exchange (HIE) models and network roles.



Course Intended *Objectives*

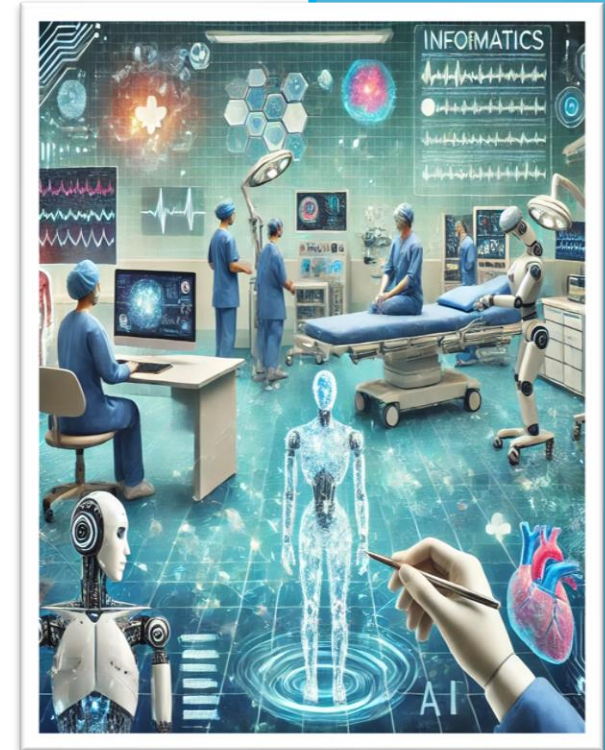
➤ **This course aims to provide you with:**

- 10. Continuity Planning and Management (Disaster Recovery):** Learn disaster recovery strategies and continuity planning in healthcare.
- 11. Artificial Intelligence and Hospital Automation:** Study AI applications in healthcare and ethical considerations.



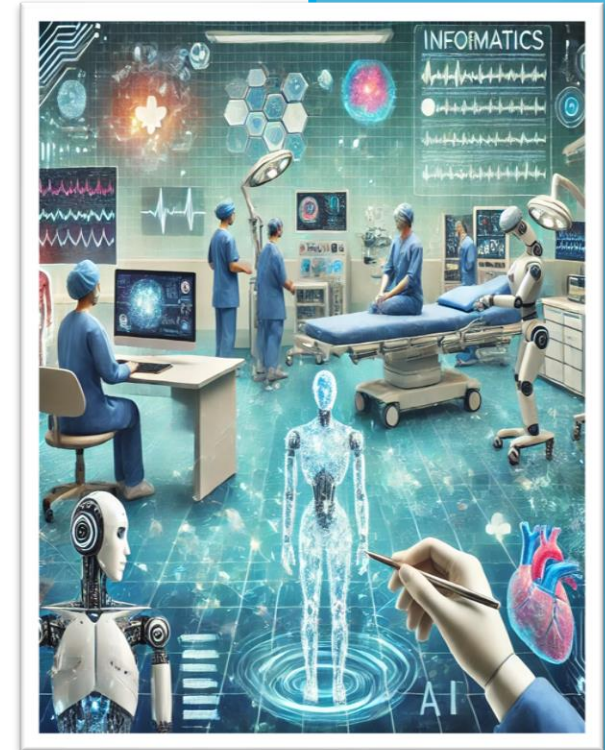
Course Intended *Outcomes*

- **By the end of this course, students will be able to:**
- **Interpret Data:** Analyze patient outcomes, resource utilization, and operational efficiency.
 - **Forecast Trends:** Make decisions in uncertain scenarios, such as resource allocation or demand prediction.
 - **Evaluate Interventions:** Assess the effectiveness, costs, and risks of clinical or administrative changes.



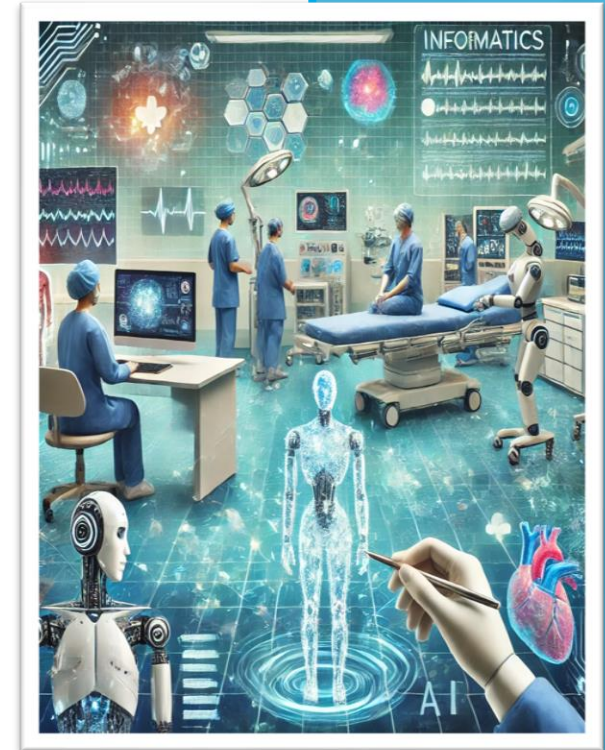
Course Intended *Outcomes*

- **By the end of this course, students will be able to:**
- **Propose IT Solutions:** Contribute to the selection, implementation, and optimization of health IT systems.
 - **Ensure Data Security:** Apply security protocols and compliance measures to protect health data.
 - **Design Workforce Training:** Develop training programs for IT adoption and change management.



Course Intended *Outcomes*

- **By the end of this course, students will be able to:**
 - **Develop Disaster Recovery Plans:** Create and test disaster recovery strategies for health IT systems.
 - **Understand AI Integration:** Explore AI applications and their impact on healthcare workflows.



Course Structure

- **Course Code :** MHA621
- **Credit Hours :** 3 Credit hours.
- **Course References :** *Volpe, S. (Ed.). (2022). Health Informatics: Multidisciplinary Approaches for Current and Future Professionals. CRC Press.*
- **Classes:** Recorded lectures .
- **Discussion Class :** For any questions & Interactive learning.
- **Self-study:** Search & Reading are needed.



Expectations (From Our Side)

- You will be treated with professionalism and respect.
- Lectures to be well-prepared, with resources provided in advance.
- Guidance and additional resources to be available to support your learning.
- Assessment support to be provided throughout the course.
- Sessions to be engaging and relevant to your academic development.
- Our team to be enthusiastic, responsive, and committed to making learning enjoyable!



Expectations (From Your Side)

- **Show Respect:** Maintain professionalism and respect towards staff and peers.
- **Commit to Lectures:** Listen to all recorded lectures weekly.
- **Manage Time:** Use your time effectively.
- **Engage Actively:** Participate in sessions to deepen understanding.
- **Enjoy Learning:** Embrace and enjoy the learning process.





Thank You