



Erasmus+



# CONTEXTUAL FACTORS AND HEALTH INFORMATION SYSTEMS

# COURSE DESCRIPTION



- This course provides students with an understanding of the importance of health information and health informatics.
- It introduces the basic concepts of health information system and information technology related to health care.
- It provides students with an understanding of health information system use in health care and the performance of the health system.
- It describes the tools and processes for collecting, storing, and retrieving health care data.
- In addition, web-based applications of information system in health care and electronic health records are emphasized.
- Furthermore, the course helps students to apply new technologies to public health practice, education, research and learning.
- Additionally, it focuses on identifying valid sources of health information to be used in health care.

# STUDENT PERFORMANCE OBJECTIVES



- Describe the basic concepts, fundamental components and processes of health information systems.
- Apply technology in data collection, storage, analysis, and reporting of information in health care.
- Utilize intranet and Internet applications to facilitate the electronic health record (EHR), personal health record (PHR), public health, and other administrative applications.
- Apply confidentiality and security measures to protect electronic health information.
- Participate in the planning, design, selection, implementation, integration, testing, evaluation, and support for organization-wide information systems.
- Use electronic health record technology to collect, store and analyze medical data to be used in health care practice and research.

# CONTENT



- - Introduction to HIS, basic concepts, and processes
- - Application of health care information technology in data collection, storage, analysis, and data reporting.
- - Data security and confidentiality
- - Intranet and Internet applications in electronic, personal, public, and administrative applications.
- - Designing and implementation organization-wide information systems.
- - Evaluation and validation of health care data
- - Utilization of electronic health record technology in health care practice and research.
- - Utilization of health information system by health care professionals
- - Contextual factors in health care information system.

# EVALUATION AND REQUIREMENTS



- Attendance Policy: Students should attend all classes. However, they are allowed to be absent according to the university regulations (6 hours) during the semester.
- Grade Determination: According to the university regulations.
- Gradable Content:
- (Example might look like:

Homework = 5%

Midterm = 15%

Project = 30%

Final exam = 50

TOTAL = 100%

# INSTRUCTIONAL MATERIALS



- LCD/Screen/ Lab top/ Data show/ Reference book/ Access to HIS journals/ Software of ICD-10