

Content

Course Code	Course Name	Semester	Theory	Practice	Lab	Credit	ECTS
INF410	Medical Informatics	7	3	0	0	3	5
Prerequisites							
Admission Requirements							
Language of Instruction							
English							
Course Type							
Elective							
Course Level							
Bachelor Degree							
Objective							
To learn and understand the principles and characteristics of medical informatics. It also presents the effect of novel IT approaches on medicine and healthcare.							
Content							
This course is an introductory course on medical informatics. It introduces the concept of computer usage in medical domain with its history, current applications and future trends.							
Biomedical Informatics Computer Applications in Health Care and Biomedicine, Edward H. Shortliffe James J. Cimino, Springer Nature Switzerland 2021, ISBN 978-3-030-58720-8							
References							
Medical Informatics, e-Health Fundamentals and Applications Springer-Verlag France 2014 ISBN 978-2-8178-0477-4							
Handbook of medical informatics, Bemmel, Jan H., van Musen, Mark A; Helder, Springer Verlag, 1997							

Theory Topics

Week	Weekly Contents
1	Medical Informatics: Introduction and History
2	Medical Data
3	Coding and Classification
4	Electronic Patient Records
5	Computerized Medical Instrumentation
6	Mobile Health
7	Biosignal Analysis
8	Midterm Exam
9	Medical Imaging
10	Student Topic Presentations
11	Hospital Information Systems and PACS
12	Medical Decision Support Systems
13	AI in Medicine
14	Project Presentations