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.
References	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 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