

Module title Information Security and Privacy in Medicine			
Module code DSPM	Level Bachelor (B.Sc.)	ECTS credits 5	Duration Regular course with weekly lectures
Module instructor Prof. Dr. Raptis OTH Regensburg	Lecture type Seminar-like lecture	Prerequisite(s) none	Grading Written exam
<p>Objectives</p> <p>After successful completion of the submodule, students will be able to,</p> <ul style="list-style-type: none"> to explain (1) and use (2) the principles of medical confidentiality and data protection to securely administering (2) computer systems in healthcare and implementing (2) eHealth applications. to assess (2) the effects of information technology on medical confidentiality and data protection in healthcare. to implement (2) information security in hospitals and doctor's practices. to apply (2) appropriate security protocols to telemedical applications. <p>After successful completion of the submodule, students will be able to,</p> <ul style="list-style-type: none"> to understand the social and ethical relevance of information security and data protection, especially in healthcare (2). to assess the impact of insecure technologies and systems on the health of individuals and the whole population (3) 			
<p>Content</p> <p>What is meant by "privacy and data security" in medicine? Not just confidentiality of patient data! We deal with the following aspects:</p> <ul style="list-style-type: none"> Brief introduction to selected basics of IT security How can I secure a medical practice? What do I have to do? What do I have to do in the hospital to secure patient data? What is important for secure archiving? What do I have to consider when developing software for practices and hospitals? Advanced topics: Authentication and Identity Management in Healthcare IT. Technical data protection in the German eHealth infrastructure. Information security in telemedicine. 			
<p>Textbook/teaching material</p> <ul style="list-style-type: none"> Lecturer provided slides 			

Note: this is not the official course descriptor according to the "Studien- und Prüfungsordnung" (SPO)