

t.BME2 - Biomechanical Engineering 2

Person responsible for the course: Bernd Heinlein, hnlh

Credits: 4

Valid for: 2011/2012

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Learning objectives:

Introduction to the basics of fracture treatment and the related surgical techniques.

Insights to pathology and postoperative practices.

Overview of national and international regulations

Overview of numerical methods

Course content:

- Science of Fracture (agmatology)
- Clinical complications
- Diseases of the musculoskeletal system
- Dimensioning of implants
- Surface structuring, abrasion (biocompatible materials)
- Medical imaging techniques
- Quality aspects of medicinal products
- Back surgery
- Numerical methods

Previous knowledge:

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Teaching method:

Type of lesson:	Number of lessons per week:
Lecture	14x2L
Tutorial/Practicum	14x2L
Group teaching	
Block instruction	
Seminar	

Assessment:

According to the table or as specified in writing by the lecture at the beginning of the semester!

Number	Type	Weighting
1	End of term exam	80%
2	Exam during the semester	20%
	Further assessments	

Language of instruction:

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Instruction material:

Skripte: Frakturlehre und Erkrankungen des Bewegungsapparates, Biokompatible Wekstoffe, Bildgebende Verfahren, QS-Medizinprodukte/Testung

Comments:

Risk analysis to be performed by the students during the semester equals 20% weighting