

НСЕ

Biomedical Sensor Systems Laboratory

Baumgartner, Bödenler, Holzapfel, Klimant, Müller-Putz, Langthaler, Rienmüller

General Information

06.03.2019





Good to know...

HCE

2

Course notes and lab materials:

homepage: Institute of Health Care Engineering https://www.tugraz.at/institute/hce/lehre/lehrveranstaltungen/vorlesungsunterlagen-ss/#c119930

Attendance:

1 x absence (medical confirmation needed!)

Report submission:

No later than one week after exercise

Group size: 3

Organisation by Ms. Petra Schmied (Institute of Health Care Engineering, petra.schmied@tugraz.at)



Grading system

Sub grade of one exercise:

PreTest

3 times negative = overall grade: negative

Evaluation

45% PreTest & 55% Report

Individual and group reports possible (Group reports <u>must be signed</u> by all participants)

Overall grade = mean of sub grades



Laboratory

HCE

7 Lab exercises:

Institute of Biomechanics

Exercise 1: "Biomechanical investigation of the porcine thoracic aorta"

Institute of Health Care Engineering

- Exercise 2: "Oscillation measurement"
- Exercise 3: "Pulse oximetry"

Institute of Neural Engineering

Exercise 4: "EEG Sensors and Technology"

Institute of Medical Engineering

- Exercise 5: "The Cottrell Experiment"
- Exercise 6: "Cyclic Voltammetry"

Institute of Analytical Chemistry and Food Chemistry

• Exercise 7: "Optical sensors for transcutaneous oxygen measurement and enzymatic"



Time table

KW	MO	DI	MI	DO	FR	
			14.30 Uhr: HS BMT			
			(Stremayrgasse 16, EG)			
			Vorbespr. für alle			
10 (04.0308.03.)			Übungsleiter			
.0 (04.0508.05.)			obulgsletter			
	Institut für					
	Neurotechnologie (Müller-					
11 (11.0315.03.)	Putz), Start: 8.00 Uhr,					
	Bibliothek (BMT04034), 4.					
	Stock, Übung 4					
	Stock, Obung 4					
		Institut für Biomechanik				
12 (18.0322.03.)		(Sommer), 9.00 - 16.00 Uhr,				
12 (18.0522.03.)						
		BMT02045, Übung 1				
13 (25.0329.03.)						
14 (01.0405.04.)						
15 (08.0412.04.)	Institut für Medizintechnik (Bödenler), 12.00 -15.00 Uhr und :	15.00 - 18.00 Uhr. Labor BMT			
	03020, Übung 5 und Übung 6					
		cocco, obulig o una obulig o				
16 (15.0419.04.)			Osterferien			
17 (22.0426.04.)			Osterferien			
18 (29.0403.05.)			Staatsfeiertag			
19 (06.0510.05.)	Institut für HCE (Boumgortog	r, Langthaler, Rienmüller), 9.00,				
	13.00 Uhr, BM 10200	2, Übung 2 und Übung 3				
20 (13.0517.05.)		r, Langthaler, Rienmüller), 9.00,				
(13.00 Uhr, BMT0200	2, Übung 2 und Übung 3				
21 (20.0524.05.)					1	
22 (27.0531.05.)				Christi Himmelf.	Rektorsta	a
22 (27.0331.03.)	Institut für Analytische Ch	emie und Lebensmittelchemie (K	(limant) 13 00 - 17 00 Ubr	Christi Hinnifell.	Rektorsta	6
23 (03.0607.06.)		rendenlabor Analytik, CE01074, L				
24 (10.06.14.06.)					Übung 1: 719	Biom
24 (10.0614.06.)	Pfingsten	vorlesungsfrei			-Übung 2: 718	Oscilla
25 (17.0621.06.)				Fronleichnam	Übung 3: 718	Pulso
26 (24.0628.06.)					Übung 4: 709	EEG Se
					Übung 5: 717 Übung 6: 717	The Co Cyclic
					Übung 7: 645	Optical