Learning Agreement MSc HST

Major: Rehabilitation and Inclusion (RI)

Matr. no. & student's name:	
Tutor's name:	
Start of study program:	

Qualification Profile 'Rehabilitation and Inclusion'

The major "Rehabilitation and Inclusion" focuses on the advancement of the continuum-of-care for patients and people with disabilities to address the worldwide need for rehabilitation and hence to help solving the societal and financial challenges resulting from the demographic shift and environmental changes.

Therefore, students will participate in a programme that exposes them to interdisciplinary and holistic research and development – ranging from prevention, via treatment and assistance, to inclusion. Apart from gaining in-depth expertise in one of the three focus areas (1) rehabilitation technology, (2) rehabilitation medicine or (3) inclusion, emphasis is given to strengthening a technology-driven but comprehensive view on the healthcare system considering economic, environmental, legal, and societal aspects. Hence, students will be equipped with a broad portfolio of skills, views and complementary knowledge of the latest technological solutions, most relevant clinical aspects, economy, legal and regulatory affairs, as well as behavioural and architectural aspects to advance the continuum-of-care and to tackle existing challenges comprehensively and sustainably (e.g. design of user-centred technological solutions, translation of rehabilitation technology from industry to clinics, financial modelling of reimbursement systems). To deepen the understanding of rehabilitation and inclusion, practical training will be acquired in rehabilitation hospitals or institutions related to disability and inclusion.

The successful completion of the programme in 'Rehabilitation and Inclusion' prepares the students for a career that will enable them to contribute to the translation of rehabilitation technology and medical interventions towards personalized long-term prevention programmes, earliest possible and continuous treatment, as well as assistance in inclusive home and work environments. It provides a solid scientific fundament for a later academic career via PhD and postdoctoral training, but it also provides graduates with a scientific and practical skill profile suitable for competitive positions in the related fields of prevention and rehabilitation, the health industry and health organizations that are engaged in inclusion and disability.

Compulsory Courses of the Major

				СР		semester	exam
х	376-0300-00	Translational Science for Health and Medicine	Goldhahn	3	2G	AS	wSE
x	376-0302-01	GCP Basic Course (Modules 1 and 2) (or TRREE combination 1/2.1/3.1/3.2/CH-Supplement)	Senti	1	1G	A/S	uSP
x	376-0302-00	Practicing Translational Science (Req.: Translational Science)	Goldhahn	2	4A	SS	gSP

Total Core Courses

Glossary	•
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V = lecture G = lecture with exercise

- U = exercise
- S = seminar
- K = colloquium
- P = practical/laboratory course
- A = independent project
- D = diploma thesis

wSE / oSE = written / oral Session Examination EE = End-of-semester Examination gSP / uSP = graded / ungraded Semester Performance

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Elective Courses of the Major

Elective courses that are counted for the Bachelor diploma (please tick column BSc) cannot count for the Master diploma, too. Of each focus area 1- 3, at least 3 CP have to be chosen. The remaining 13 CP can be chosen in any of the areas, in agreement with the tutor.

Courses in italic are only provisional; requests to open these courses are pending.

Focus Area 1 - Rehabilitation Technology								
		At least 3 CP of the following courses to be selected	ed	СР		sem.	exam	BSc
	252-3110-00	Human Computer Interaction	Holz	8	7VA	AS	EE	
	363-0790-00	Technology Entrepreneurship	Hacklin	2	2V	AS	gSP	
	376-1176-00	Wearable and Mobile Technologies of the Future – Focus on Sports and Health	Menon	4	3G	AS	WEE	
	376-1219-00	Rehabilitation Engineering II: Rehabilitation of Sensory and Vegetative Functions	Riener	3	2V	AS	wSE	
	376-xxxx-00 (start 2024)	(NEW) Artificial Intelligence in Rehabilitation (prerequ: Foundations of Data Science)	Jutzeler	3	V/P	AS	gSP	
	252-0312-00	Mobile Health and Activity Monitoring	Holz	6	5VA	SS	EE	
	363-1130-00	Digital Health in Practice (University of Zurich)	Kowatsch	3	2V	SS	uSP	
	376-0210-00	Biomechatronics	Riener	4	3G	SS	wSE	
	376-1217-00	Rehabilitation Engineering I: Motor Systems	Riener	4	3VU	SS	wSE	
	376-1400-00	Transfer of Technologies into Neurorehabilitation	Bruno	3	2V	SS	wSE	
	376-1224-00	(NEW) Assistive Technology Challenge	Gassert	6	V/P	SS	gSP	
	376-1227-00	(NEW) Translation of Clinical Concepts into Telerehabilitation	Awai	3	2V	SS	wSE	

Foc	Focus Area 2 - Rehabilitation Medicine							
		At least 3 CP of the following courses to be selected	ed	СР		sem.	exam	BSc
	376-0225-00	Physical Activities and Health	Knols	3	2V	AS	gSP	
	376-1222-00	(NEW) Motor Neurorehabilitation	Luft	3	G	AS	wES	
	376-1223-00	(NEW) Physical Medicine and Rehabilitation	Branscheidt	3	2V	AS	wSE	
	376-2017-00	Biomechanik von Sportverletzungen und Rehabilitation	Schmitt	3	2V	AS	gSP	
	376-0224-00	Clinical Exercise Physiology	Spengler	3	2V	SS	WEE	
	376-1150-00	Clinical Challenges in Musculoskeletal Disorders	Leunig	2	2G	SS	gSP	
	376-1306-00	Clinical Neuroscience (University of Zurich)	Diverse	3	3G	SS	gSP	

Foc	us Area 3 - Inclu	ision						
		At least 3 CP of the following courses to be selected	ed	СР		sem.	exam	BSc
	376-1220-00	Rehabilitation and Inclusion	Riener	3	2V	AS	wSE	
	376-1221-00	(NEW) Economic and Regulatory Principles of Rehabilitation and Reintegration	Altmann	1	1V	AS	gSP	
	376-1661-00	Ethics of Life Sciences and Biotechnology	Blasimme	3	2V	AS	gSP	
	376-1722-00	Paraplegie und Sport	Perret	2	2V	AS	gSP	
	752-6151-00	Public Health Concepts	Heusser	3	2V	AS	WEE	
	363-1008-00	Public Economics (not specific for Rehab & Inclusion)	Köthenbürger	3	2V	SS	wSE	
	376-1226-00	(NEW) Inclusion Praxis (prerequ.: Rehabilitation and Inclusion)	Riener	3	V/P	SS	uSP	
	376-1225-00	(NEW) Disability (Studies), Inclusion and Human Rights	McGowan	3	2V	SS	wSE	
	376-1228-00	Web and Mobile Accessibility (University of Zurich)	Uni-Doz.	3	3G	SS	gSP	

Total Elective Courses of the Major

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Elective Courses in Science in Perspective

				СР	;	semester	exam
Tota	Total Elective Courses Science in Perspective				(min	. 2 CP)	

DHEST Department of Health Sciences and Technology

Practical Training (job or research oriented)

			СР	semester
376-2110-00	Practical Training 12 Weeks	Tutor	15	34P
376-2111-00	Practical Training 8 Weeks	Tutor	10	23P
376-2112-00	Practical Training 4 Weeks	Tutor	5	11P

Total Practical Training

(min.	15	CP)

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Research Internship

				СР	semester
х	376-2100-00	Research Internship (min. 12 weeks full time equivalent) Planned location:	Tutor	15	36A
Total Research Internship				15	

Master Thesis

x	376-2000-00	Master Thesis (max. 6 months full time, start not before BSc completed) Planned location:	Superv./Tutor	СР 30	semester 71D
Tota	al Master Thesis	5		30	

Comments (e.g. Additional Admission Requirements)

Zurich,

Signed

Student

Tutor