MAS in Sleep Medicine – Study Plan



2023-01-31	The MAS in Sleep Medicine Course is a university study program leading to the award of the title "Master of Advanced Studies in Sleep Medicine, University of Bern, Università della Svizzera italiana (MAS SM Unibe USI)", as laid out in the Regulations governing the MAS in Sleep Medicine.
	1. Course objectives
About	Sleep medicine is a rapidly growing field as more and more people suffer from sleep problems and related disorders. In order to meet the increasing demand for specialists in this field, this course offers local and international students, researchers and professionals operating or planning to operate in the field of Sleep, Consciousness and Related Disorders the opportunity to complement their core competences with a formal deepening and broadening of their knowledge and skills.
Competence objectives	The course competences are acquired in a MAS course with several modules. At the end graduates will:
	1. know the structural and functional basis of sleep regulation, related disorders and consciousness regulation,
	2. know the fundamentals of sleep medicine,
	3. gain deep theoretical and practical expertise in the diagnosis and therapy of sleep disorders and in selected areas of sleep medicine,
	4. general practical and theoretical knowledge of sleep scoring.
	5. as part of a practice-oriented diploma thesis they demonstrate their capability of acquiring scientific literature and transferring knowledge into practice in form of at least one publishable text,
	6. according to their professional background they are capable of managing a unit for sleep medicine and to assume executive functions.
	2. Duration, outcomes and objectives of the modules
Duration and scope	The duration of the course is 2.5 years and consists of online modules, Summer School hybrid, Winter School hybrid, internship, MAS-thesis) and equals 60 ECTS-Credits (ca. 1500 study hours).
	The details of the course are described in the annex of this study plan.

Assessments	3. Performance assessment
	The performance assessment includes the following elements:
	a. Course attendance to the required extent,
	b. Performance assessment from all modules according to Art. 16 in the "Regulations governing the MAS Program in Sleep Medicine". The details of the assessments are described in the annex of this study plan.
	4. Final regulations
Entry into force	The present plan shall enter into force on 2023-04-01.

2023-01-31 Released by the program management:

Marmity'

Prof. Dr. med. Claudio Bassetti

2023-03-15 Adopted by the Faculty of Medicine, University of Bern The Dean

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Prof. Dr. med. Claudio Bassetti

Annex – Study Plan of the MAS in Sleep Medicine 2025-2027

Module 1 Basic Sleep Medicine

ECTS	4 ECTS credit points	Duration	Approx
LUIS	1	Duration	Approx.
	(incl. self-study and test)		100 hrs.
Assessment	Multiple choice test	Req.	100%
	-	attendance	
Learning	Graduates will		
outcomes	• learn the basics about S	leep Medicine	
	• be able to analyse and ex	xplain the defi	nition of sleep
	and sleep regulations	1	1
	• be able to assess sleep, v	vigilance and o	circadian rhythms
Learning	• Sleep-wake cycle, consciousness and their disorders		
objectives	Circadian rhythms		
-	• International classification of sleep disorders		
	• Strategies in sleep research		
	• Sleep regulations		
	Sleep and digitisation		
Learning	• Online platform with approx. 10 online lectures &		
and teaching	papers		
methods	 Self-study, reading, preparation 		
			sion and
	 Online live meeting Q&A, case discussion and deepening of knowledge 		
Prerequisites	None	-	
Teaching	English		
language	0		

Module 2 Sleep Medicine Summer School

DODO			4 751
ECTS	3 ECTS credit points	Duration	Approx. 75 hrs.
	(incl. self-study and test)		
Assessment	none	Req.	80%
		attendance	
Learning	• This module is organis	ed in cooperati	on with the
outcomes	European Sleep Founda	ation. The detai	iled program is
	presented on the websi	te	
	www.europeansleepfoundation.ch.		
Learning	Details on www.europeansleepfoundation.ch		
objectives	_	-	
Learning	• 1 week Seminar in Switzerland or another country in		
and teaching	Europe (hybrid for students that are not able to		
methods	travel)		
	• Q&A sessions and case discussion		
	Seminar discussions		
Prerequisites	None		
Teaching	English		
language			

Module 3 Interdisciplinary Approach

ECTS	4 ECTS credit points (incl.	Duration	Approx. 100
LCIS	± `	Duration	hrs.
	self-study and test)	_	11.51
Assessment	Multiple choice test	Req.	100%
		attendance	
Learning	Graduates will		
outcomes	• gain more in-depth knowl	edge about Sle	ep Medicine
	• understand the link betwee	en sleep and ge	ender
	medicine, sport, aging, co	vid, nursery	
Learning	• Circadian, sleep and healt	h	
objectives	• Sleep and sport		
-	Sleep and gender medicine		
	• Sleep and aging and lifespan		
	Sleep and covid		
	• Sleep and nursery		
	Sleep and consciousness		
Learning	• Online platform with approx. 10 online lectures &		
and teaching	papers		
methods	 Self study, reading, preparation 		
	• Online live meeting Q&A		ission
Prerequisites	None		
Teaching	English		
language			

Module 4 Sleep Medicine Winter School

ECTS	3 ECTS credit points	Duration	Approx. 75 hrs.
Leib	(incl. self-study and test)	Durution	1 pprox. 75 ms.
	(mer. sen-study and test)		
Assessment	none	Req.	80%
		attendance	
Learning	• This module is organise	d in cooperati	on with the
outcomes	European Sleep Founda	tion. The detai	iled program is
	presented on the website	e	
	www.europeansleepfour	ndation.ch.	
Learning	Details on www.europeansleepfoundation.ch		
objectives			
Learning	• 4-days seminar in Switzerland or another country		
and teaching	in Europe (partly hybrid for students that are not		
methods	able to travel)		
	• Q&A sessions and case discussion		
	Seminar discussions		
Prerequisites	None		
Teaching	English		
language			

Module 5 Basic Science

ECTS	5 ECTS credit points	Duration	Approx 125	
LCIS	-	Duration	Approx. 125	
	(incl. self-study and test)		hrs.	
Assessment	Multiple choice test or	Req.	100%	
	Presentation	attendance		
Learning	Graduates will			
outcomes	• Gain advanced insights	with a focus of	n clinical topics	
Learning	Network neurophysiolog	gy, physiology	y-pathology	
objectives	• Sleep wake cycle, circad	lian clocks		
	• Neurobiology of the consciousness system			
	• Epilepsy and chronobiol	logy		
	• Animal model of narcol	• Animal model of narcolepsy, animal model of RBD		
Learning	• Online platform with approx. 15 online lectures &			
and teaching	papers			
methods	• Self study, reading, preparation			
	• Online live meeting Q&	A and case di	scussion	
	• Webinar with students presenting a prepared work &			
	discussion			
Prerequisites	None			
Teaching	English			
language				

Module 6 Primary Sleep Disorders

ECTS	6 ECTS credit points	Duration	Approx. 150 hrs.	
LUIS	1	Duration	Approx. 150 lits.	
	(incl. self-study and test)			
Assessment	Multiple choice test	Req.	100%	
		attendance		
Learning	Graduates will			
outcomes	• gain advanced insights	with a focus of	n clinical topics	
Learning	• Insomnia, Hypersomnia	, Parasomnia		
objectives	Pediatric disorders			
	Sleep-related movement disorders			
	RLS/PLMS clinical aspects and treatment			
	Sleep apnea			
	• Physiology and phenomenology of dreaming			
	Disorders of consciousness			
Learning	• Online platform with approx. 17 online lectures & papers			
and teaching	• Self study, reading, prep	• Self study, reading, preparation		
methods	• Online live meeting Q&A and case discussion			
Prerequisites	None			
Teaching	English			
language				

Module 7 **Objective Sleep Measures**

ECEC	A ECTS and literation to		A
ECTS	4 ECTS credit points	Duration	Approx. 100 hrs.
	(incl. self-study and test)		
Assessment	Multiple choice test or	Req.	100%
	Presentation	attendance	
Learning	Graduates will		
outcomes	• gain in-depth theoretical and practical insights into sleep scoring		
Learning objectives	 Imaging during sleep (fMRI, PET, NIRS) Electrical activity during sleep (EEG, HD-EEG, MEG, LFP, Unit recordings Objective measurements of sleep in the sleep laboratory Introduction to sleep scoring 		
Learning	 Introduction of RemLogic and sleep scoring Online platform with approx. 8 online lectures 		
and teaching		-	10000100
methods	Self study, reading, preparationOnline live meeting Q&A and case presentation		
Prerequisites	None		
Teaching	English		
language			

Module 8 Specialization

ECTC	0 ECTS and it is sints	Derestian	Ammon 190 hm
ECTS	9 ECTS credit points	Duration	Approx. 180 hrs.
	(incl. self-study, test and		
	presentation)		
Assessment	Multiple choice test or	Req.	100%
	Presentation	attendance	
Learning	Graduates will		
outcomes	• work on their specializa	tion and choo	se 3 of below topics
Learning	• Topic 1: Disorders of co	onsciousness	
objectives	• Topic 2: Sleep and pulm	nonology	
	• Topic 3: Sleep and psychiatry		
	• Topic 4: Sleep and pediatrics		
	 Topic 5: Sleep and neurology 		
	 Topic 6: Sleep and epilepsy 		
	 Topic 7: Insomnia 		
	 Topic 8: Consumer Sleep Technology (CST) 		
	 Topic 9: Narcolepsy 		
	• Topic 10: Anaesthesia a	nd sleep neur	oscience
	• Topic 11: Artificial Inte		
	Sleep/Epilepsy/Conscio	0	
Learning	• Online platform with on		k papers
and teaching	 Self study, reading, preparation, Presentation 		
methods	 Online live meeting Q&A and case presentation 		
Prerequisites	None		
Teaching	English		
language			

Module 9 Internship Sleep Laboratory

ECTS	4 ECTS credit points	Duration	Approx. 100 hrs.
	(internship and report)		2-4 weeks
Assessment	Report	Req.	100%
	-	attendance	
Learning	Graduates will		
outcomes	• gain practical insights in	a sleep lab at	one of our Partner
	Universities	-	
Learning	Practical project where the	students define	e the goal together
objectives	with a mentor of the Partner University / Sleep Lab		
		_	_
Learning	• Working at a sleep lab		
and teaching	• Writing a report		
methods			
Prerequisites	None		
Teaching	English		
language			

Module 10 MAS-Thesis

ECTS	15 ECTS credit points	Duration	Approx. 375-450 hrs.
Assessment	MAS-thesis	•	
Learning	Graduates will		
outcomes	• be dedicated to research	and to write	a MAS-thesis
	• 12'000 – 20'000 words		
Learning	• A pool of topics and me	entors will be	provided to the
objectives	students		
	• Every student is free to choose a topic and a specialist in		
	the field of sleep medicine (subject to approval by the		
	MAS program lead)		
Learning	• Research and writing a	thesis	
and teaching	• Self study and research		
methods	-		
Prerequisites	None		
Teaching	English		
language			

Module 11 Transferable Skills

ECTS	3 ECTS credit points	Duration	Approx. 75 hrs.
Assessment	Multiple choice test	Req.	100%
		attendance	
Learning	Graduates willGain knowledge in management and		
outcomes	leadership		
Learning	Healthcare leadership training		
objectives			
Learning	Online platform		
and teaching	Online lectures & papers		
methods			
Prerequisites	None		
Teaching	English		
language			