



SUNRAISE CURRICULA AND LEARNING CONTENTS

Intermediate Report



Outline

- 01. Work package leaders
- 02. Objectives
- 03. Deliverables
- 04. Tasks fulfilled
- 05. Results



01. Work package leaders

Work package 2 has been carried out under the leadership of partners P2 (University of Salzburg, Austria) and P9 (Royal University of Bhutan, Bhutan), who have coordinated and ensured the smooth and successful realisation of all work package activities, as well as the quality of all results. In particular, it was intended that P2 was in charge of the coordination of activities within WP2.3 (see the two sections below), while WP2.2 had to be completely supervised by P9. The supervision of WP2.1 had to be shared among both P2 and P9. However, due to impossibility of the latter partner to participate in the leadership of the work package, all activities related to the coordination and supervision of work package 2 have been carried out by P2.

02. Objectives

The objective of work package 2 is to build sufficient capacity for sustainable maintenance of SUNRAISE curricula and learning contents by upgrading existing and developing new courses, upgrading the PhD research framework, and training of academic staff and PhD students. To that end, 3 sub-packages were created: 1) WP2.1 aiming at the revision and development of SUNRAISE courses and learning materials; 2) WP2.2 aiming at strengthening the research and teaching capacity of SUNRAISE partners through modernisation of PhD research agenda; and 3) WP2.3 aiming at the realisation of a range of SUNRAISE training activities related to the development of curricula and learning materials following the programme approved by the Steering Committee.

03. Deliverables

For each of the sub-packages defined, the deliverables to be produced are:

• WP2.1: circa 12 ECTS and 30 ECTS of significantly updated existing courses and new courses, respectively, which are targeted to bachelor, master or PhD students. For the revision of existing courses, this involves the revision of approximately 3 courses worth at least 3 ECTS by each of the 7 involved partners, but partner P2. The latter partner is only responsible for the production of a new optional course. All new and revised courses have to be accredited, implemented and their quality assessed by stakeholders, an EU partner and an external reviewer before the conclusion of the project.

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	Expected deliverables		Quality assessment of the courses				
Partners involved	Study programmes that will be improved	Document types that will be delivered	Local stakeholders involved in the quality assessment	EU partners involved in the quality assessment (crosspeer evaluation)	External reviewer in charge of the quality assessment		
P2 (University of Salzburg, Austria)	1 optional MSc/PhD course that can be used by partners P5-P7, P9, P11-P12 for improving their study programmes	Overview on the revised/ newly created courses Updated/ newly	Not applicable	P3 (Estonian University of Life Sciences, Estonia)	Attila Katona		
P5 (Russian State Hydrometeorological University, Russia)	BSc and MSc programmes in applied hydrometeorology, ecology and natural resource management	created syllabus - Teaching materials, including the lecture notes	?	P1 (University of Bremen, Germany)			
P6 (Siberian Federal University, Russia)	 BSc programmes in geography, ecology and natural resource management, amelioration, and water resource management MSc programmes in spatial planning, sustainable development and environmental safety, fundamental ecology, nature conservation, environment of polar oil- and gas-producing regions, and environmental monitoring 	 Accreditation documents (not applicable in the case of P2) Evaluation sheets with the results of the students' and staff's appraisal about the course after implementation Critical reviews by 	?	P3 (Estonian University of Life Sciences, Estonia)			
P7 (Gorno-Altaisk State University, Russia)	BSc and MSc programmes in geography, ecology and natural resource management	local stakeholders, an EU partner, and an external reviewer about each of the newly created/ revised courses	?	P2 (University of Salzburg, Austria)			

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	Expected deliverables		Quality assessment of the courses				
Partners involved (cont.)	Study programmes that will be improved	Document types that will be delivered	Local stakeholders involved in the quality assessment	EU partners involved in the quality assessment (crosspeer evaluation)	External reviewer in charge of the quality assessment		
P9 (Royal University of Bhutan, Bhutan) P11 (Kumaun University, India)	Degree programmes in sustainable development, forestry and agriculture Degree programmes in Forestry, Geology and Geographical Information Science/ Geography	 Overview on the revised/ newly created courses Updated/ newly created syllabus Teaching materials, including the lecture notes Accreditation documents (not applicable in the case of P2) Evaluation sheets with the results of the students' and staff's appraisal about the course after implementation Critical reviews by 	- AAROHI - Centre for Himalayan Environment and Climate Change Studies - Uttarapath Sewa Sanstha - Centre for Environmental Assessment and Climate Change	P3 (Estonian University of Life Sciences, Estonia) P2 (University of Salzburg, Austria)	Attila Katona		
P12 (Jawaharlal Nehru University, India)	BSc and MSc programmes in environmental sciences and ecology	local stakeholders, an EU partner, and an external reviewer about each of the newly created/ revised courses	 WWF-India The Energy and Resources Institute (TERI) Symbiosis Institute of Geoinformatics (SIG) 	P3 (Estonian University of Life Sciences, Estonia)			

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Intermediate Report SALZ



- WP2.2: development of the SUNRAISE research training framework, which should outline issues and problems and discuss the latest international literature and possible directions of relevant PhD research. Based on this framework, institutional and department research agendas have to be developed by project partners P5, P6, P7, P9, P11, and P12. These research agendas will provide support to PhD (but also MSc/MA) students and their supervisors to identify the research topics and plan thesis contents relevant to the latest scientific and policy developments. The allocation of at least 7 PhD positions is foreseen. Further, the completion of the sub-package has to result in the revision of "passports of PhD specialisations" by partners P5, P6, and P7. The quality of all these activities is ensured by partner P2.
- **WP2.3**: carrying out of training events, including 3 open call international summer schools targeted to academic faculty and PhD students (see table below). The execution of other training formats including 6 onsite seminars by EU faculty, and short study visits is also foreseen.

Partners involved	Expected deliverables	Quality assessment
P6 (Siberian Federal University, Russia)	Summer school on SDGs and	Evaluation of the activities
And P7 (Gorno-Altaisk State University,	monitoring of early warnings in	by the participants
Russia)	management of mountain areas	
	in 2018	
P2 (University of Salzburg, Austria)	Summer school on urbanization	Evaluation of the activities
	forced by tourism in sensitive	by the participants
	arctic and high mountain regions	
	in 2019	
P5 (Russian State Hydrometeorological	Summer school on international	Evaluation of the activities
University, Russia)	and European aspects of natural	by the participants
	resources governance in the	
	Arctic in 2021 (it was initially	
	planned for August 2020, but had	
	to be postponed due to the Covid-	
	19 pandemic)	

04. Tasks fulfilled

On 28 February 2021, the status of all work package-related activities is as follows:

• WP2.1: courses have been revised and newly created by all project partners in charge, have been accredited by the respective accreditation bodies, and implemented in the respective academic institutions. All required documents (including syllabi, etc.) have already been provided to the project managers for revision and made freely available or will be launched very soon. The delay in the latter case has been due to unexpected difficulties by some partners. On the other hand, results are already available on the evaluation of the courses' implementation by students and staff members, and the quality assessment process by local stakeholders, EU partners and an external reviewer is also underway. The latter is expected to be finished before long. The status by each partner is pointed out in the tables below:

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Project partner: P2 (University of Salzburg, Austria) Status of the deliverables up to 28.02.2021 1 new course – 3 ECTS Level of fulfilment Programmes expected to be Activities set Courses revised/ Overview of the Accreditation **Piloting** improved Quality assessment newly created courses provided No particular programme At P9 (Royal targeted (this is an optional University of 1 course newly created (3 course that can be used by Bhutan). Done Not applicable Not applicable ECTS) together with P9, P11 any partners for improving their study programmes) and P12. Legend (level of fulfilment) Done Ongoing **Pending** New course 1: Synoptic meteorology of the Arctic region (BSc programme in hydrometeorology (aviation meteorology major) **Fulfilment** Basic of the Course materials Accreditation Piloting Quality assessment information task Lecture Other Evaluation Quality Quality Accreditation Already Quality Study Number Already Syllabus notes/ teaching by the documents assessment by assessment by an piloted assessment by EU level of ECTS available quidelines materials students/ created? available stakeholders partners external reviewer available available staff √ in August 2019 at P9 (Royal MSc/ Not 3 ٧ University of Not applicable Not applicable PhD applicable Bhutan) (12 students taught)

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Project partner: P5 (Russian State Hydrometeorological University, Russia)												
Status of the deliverables up to 28.02.2021												
3 courses revised + 1 new course – 9 ECTS												
Dragrammas avacated to be		Level of fulfilment										
Programmes expected to be improved	Activities set	Courses revised/ newly created	Overview of the courses provided	Accreditation	Implementation	Quality assessment						
BSc programme in hydrometeorology (aviation meteorology major)	1 course newly created (3 ECTS)											
MSc programme in ecology and natural resource management	2 courses revised (6 ECTS)											
Legend (level of fulfilment)	Done	Ongoing	Pend	ing								

Course	e revised :	1: Environm	ental safet	ty of minera	al resources	s exploration o	n the Arctic sh	nelf (MSc pro	ogramme in ecology	y and natural resou	rce management)
Basic inform	ation	Fulfilment of the task	Course ma	aterials		Accreditation	Implementation	on	Quality assessment		
Study level	Number of ECTS	Already revised?	Syllabus available	Lecture notes/ guidelines available	Other teaching materials available	Accreditation documents available	Already implemented	Evaluation by the students/ staff	assessment by Quality Quality Quality assessment by EU assessment		Quality assessment by an external reviewer
MSc	3	V	٧	х	х	V	V since the academic year 2019-20 (11 students taught to date)	х	V	√ done by partner P1 (University of Bremen)	х

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	Course revised 2: The impact of climate and its changes on the state of ecosystems and human activity in the polar and mountainous regions (MSc programme in ecology and natural resource management)												
Basic inform	information of the Course materials task				Accreditation	Accreditation Implementation Quality assessment							
Study level	Number of ECTS	Already revised?	Syllabus available	Lecture notes/ guidelines available	Other teaching materials available	Accreditation documents available	Already implemented	Evaluation by the students/ staff	Quality assessment by stakeholders	Quality assessment by EU partners	Quality assessment by an external reviewer		
MSc	3	٧	٧	x	x	٧	V since the academic year 2019-20 (13 students taught to date)	х	٧	х	x		

New c	ourse 1: S	Synoptic me	teorology	of the Arcti	c region (BS	Sc programme	in hydrometed	orology (avia	tion meteorology n	najor)	
Basic inform	ation	Fulfilment of the task	Course ma	aterials		Accreditation	Implementatio	on	Quality assessment		
Study level	Number of ECTS	Already created?	Syllabus available	Lecture notes/ guidelines available	Other teaching materials available	Accreditation documents available	Already implemented	Evaluation by the students/ staff	Quality Quality Quality assessment by assessment by partners external review		
BSc	3	V	V	х	х	V	✓ since the academic year 2019-20 (12 students taught to date)	х	V	х	Х

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Project partner: P6 (Siberian Federal University, Russia)											
i roject partiler. Fo (Six	citati i caciai ottiveisi	cy, 11a331a)									
Status of the deliverables up to 28.02.2021											
5 courses revised + 1 new course – 17 ECTS											
Programmes expected to be		Level of fulfilment	Level of fulfilment								
improved	Activities set	Courses revised/ newly created	Overview of the courses provided	Accreditation	Implementation	Quality assessment					
BSc programme in ecology and environmental management	4 courses revised (11 ECTS)										
MSc programme in ecology and environmental management	1 course revised and 1 course newly created (6 ECTS)		One course is unfortunately missing in the table								
MSc programme in sustainable development and environmental safety	1 course revised (3 ECTS)										
MSc programme in environmental monitoring	1 course revised (3 ECTS)										
Legend (level of fulfilment)	Done	Ongoing	Pend	ing							

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	Course revised 1: Environmental Biomonitoring (Mountain module) (MSc programme in ecology and environmental management, MSc programme in sustainable development and environmental safety, and MSc programme in environmental monitoring)												
Basic of the course materials task						Accreditation	Accreditation Implementation Quality assessment						
Study level	Number of ECTS	Already revised?	Syllabus available	Lecture notes/ guidelines available	Other teaching materials available	Accreditation documents available	Already implemented	Evaluation by the students/ staff	Quality assessment by stakeholders	Quality assessment by EU partners	Quality assessment by an external reviewer		
MSc	3	٧	х	٧	х	х	✓ since the academic year 2018-19 (36 students taught to	х	х	х	х		

Course	e revised	2: Natural-r	esource po	tential of re	egions (Mo	untain and Arc	tic modules) (E	3Sc program	me in ecology and	environmental mar	nagement)
Basic inform	ation	Fulfilment of the task	Course ma	iterials		Accreditation	Implementatio	on	Quality assessment		
Study level	Number of ECTS	Already revised?	Syllabus available	Lecture notes/ guidelines available	Other teaching materials available	Accreditation documents available	Already implemented	Evaluation by the students/ staff	Quality assessment by stakeholders Quality assessment by EU partners Quality assessment b external revie		
BSc	3	V	٧	х	٧	√	✓ since the academic year 2018-19 (42 students taught to date)	х	V	√ done by partner P3 (Estonian University of Life Sciences)	х

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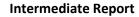
Course	e revised 3	3: Plant Eco	logy (Mou	intain and A	rctic modu	les) (BSc progra	amme in ecolo	gy and envir	onmental manager	nent)	
Basic inform	ation	Fulfilment of the task	Course materials			Accreditation	Implementatio	on	Quality assessment		
Study level	Number of ECTS	Already revised?	Syllabus available	Lecture notes/ guidelines available	Other teaching materials available	Accreditation documents available	Already implemented	Evaluation by the students/ staff	Quality assessment by stakeholders	Quality assessment by EU partners	Quality assessment by an external reviewer
BSc	3	٧	٧	х	٧	V	✓ since the academic year 2018-19 (80 students taught to date)	х	х	√ done by partner P3 (Estonian University of Life Sciences)	х

Course	e revised	4: Soil Ecolo	gy (Mount	ain and Arc	tic modules	s) (BSc program	me in ecology	and enviror	mental manageme	ent)	
Basic inform	ation	Fulfilment of the task	Course materials			Accreditation	Implementatio	Implementation Quality assessment			
Study level	Number of ECTS	Already revised?	Syllabus available	Lecture notes/ guidelines available	Other teaching materials available	Accreditation documents available	Already implemented	Evaluation by the students/ staff	Quality assessment by stakeholders	Quality assessment by EU partners	Quality assessment by an external reviewer
BSc	3	V	V	х	V	V	✓ since the academic year 2018-19 (38 students taught to date)	х	х	√ done by partner P3 (Estonian University of Life Sciences)	х

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Course	e revised !	5: Sustainab	le Develo _l	pment (Mou	untain and	Arctic modules) (BSc program	me in ecolo	gy and environmen	ital management)	
Basic informa	ation	Fulfilment of the task	Course ma	aterials		Accreditation	Implementatio	on	Quality assessment	:	
Study level	Number of ECTS	f ECTS revised? available guidelines materials		Other teaching materials available	Accreditation documents available	Already implemented	Evaluation by the students/ staff	Quality assessment by stakeholders	Quality assessment by EU partners	Quality assessment by an external reviewer	
BSc	2	٧	V	х	V	V	√ since the academic year 2019-20 (27 students taught to date)	х	٧	√ done by partner P3 (Estonian University of Life Sciences)	х

New c	ourse 1: E	Biogeochem	istry of pe	rmafrost lai	ndscapes (N	MSc programm	e in ecology ar	nd environm	ental management)	
Basic inform	ation	Fulfilment of the task	Course ma	iterials		Accreditation	Implementation	on	Quality assessment		
Study level	Number of ECTS	Already created?	Syllabus available	, ,		Accreditation documents available	Already implemented	Evaluation by the students/ staff	Quality assessment by stakeholders	Quality assessment by EU partners	Quality assessment by an external reviewer
MSc	3	٧	V	х	V	х	√ since the academic year ? (35 taught to date)	х	х	√ done by partner P3 (Estonian University of Life Sciences)	х

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Project partner: P7 (Gorno-Altaisk State University, Russia)													
Status of the deliverables up to 28.02.2021													
1 course revised + 3 new cour													
Programmes expected to be Level of fulfilment													
improved	Activities set	Courses revised/ newly created	Overview of the courses provided	Accreditation	Implementation	Quality assessment							
BSc programme in ecology and environmental management	1 course revised and 1 course newly created (5 ECTS)												
BSc programme in geography	1 course newly created (2 ECTS)												
MSc programme in ecology and environmental management	2 courses newly created (6 ECTS)												
MSc programme in geography	MSc programme in 2 courses newly created (6												
Legend (level of fulfilment)	Done	Ongoing	Pend	ing									

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Course revised 1: Environmental design and expertise (BSc programme in ecology and environmental management)											
Basic inform	ation	Fulfilment of the task	Course materials			Accreditation	Implementatio	on	Quality assessment		
Study level	Number of ECTS	Already revised?				Accreditation documents available	Already implemented	Evaluation by the students/ staff	Quality assessment by stakeholders	Quality assessment by EU partners	Quality assessment by an external reviewer
BSc	3	٧	٧	V	٧	٧	✓ since the academic year 2018-19 (39 students taught to date)	V	V	√ done by partner P2 (University of Salzburg)	х

New course 1: A Special Course in a Foreign Language (based on the MOOC "Sustainable Development of Mountain Territories in the Context of the Concept of Ecosystem Services") (BSc programme in ecology and environmental management and BSc programme in geography)

Basic inform	ation	Fulfilment of the task	Course materials			Accreditation	Implementatio	on	Quality assessment		
Study level	Number of ECTS	nber Already Syllabus notes/ teaching CTS created? available guidelines materia		Other teaching materials available	Accreditation documents available	Already implemented	Evaluation by the students/ staff	Quality assessment by stakeholders	Quality assessment by EU partners	Quality assessment by an external reviewer	
BSc	2	V	٧	٧	٧	٧	v since the academic year 2020-21 (8 students taught to date)	V	V	√ done by partner P2 (University of Salzburg)	х

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New course 2: Sustainable development of mountain territories (MSc programme in ecology and environmental management and MSc programme in geography)												
Basic inform	ation	Fulfilment of the task	Course ma	aterials		Accreditation	Implementation	on	Quality assessment	:		
Study level	Number of ECTS	Already created?	Syllabus available	Lecture notes/ guidelines available	Other teaching materials available	Accreditation documents available	Already implemented	Evaluation by the students/ staff	Quality assessment by stakeholders	Quality assessment by EU partners	Quality assessment by an external reviewer	
MSc	3	٧	٧	x	٧	٧	√ since the academic year 2019-20 (33 students taught to date)	v	V	√ done by partner P2 (University of Salzburg)	х	

New course 3: Waste management (MSc programme in ecology and environmental management and MSc programme in geography)											
Basic inform	ation	Fulfilment of the task	Course ma	aterials		Accreditation	Implementatio	on	Quality assessment		
Study level	Number of ECTS	Already created?	Syllabus Lecture Other available guidelines materials available available		Accreditation documents available	Already implemented	Evaluation by the students/ staff	Quality assessment by stakeholders	Quality assessment by EU partners	Quality assessment by an external reviewer	
MSc	3	٧	٧	٧	٧	٧	√ since the academic year 2019-20 (13 students taught to date)	V	V	√ done by partner P2 (University of Salzburg)	х

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Project partner: P9 (Royal University of Bhutan, Bhutan)											
Status of the deliverables up to 28.02.2021											
? courses revised + ? new courses – ? ECTS											
Programmes expected to be improved	Activities set	Level of fulfilment Courses revised/ newly created	Courses revised/ Overview of the Accreditation Implementation Quality								
Degree programmes in sustainable development, forestry and agriculture Course revised and ?											
Legend (level of fulfilment) Done Ongoing Pending											

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Project partner: P11 (K	Project partner: P11 (Kumaun University, India)												
Status of the deliverables up to 28.02.2021													
2 courses revised + 2 new courses – 16 ECTS													
Level of fulfilment													
Programmes expected to be improved	Activities set	Courses revised/	Overview of the	Accreditation	Implementation	Quality assessment							
mproved		newly created	courses provided	Accreditation	implementation	Quality assessment							
M.A. and MSc programme in	2 courses revised and 2												
geography	courses newly created (16												
geography	ECTS)												
Legend (level of fulfilment) Done Ongoing Pending													

Course	Course revised 1: Integrated Watershed Management (M.A. and MSc programme in geography)											
Basic inform	ation	Fulfilment of the task	Course ma	aterials		Accreditation	Implementatio	on	Quality assessment			
Study level	Number of ECTS	Already revised?	red? available guidelines materio		Other teaching materials available	Accreditation documents available	Already implemented	Evaluation by the students/ staff	Quality assessment by stakeholders	Quality assessment by EU partners	Quality assessment by an external reviewer	
M.A. and MSc	4	V	V	٧	х	V	v since the academic year 2019-20 (50 students taught to date)	V	V	√ done by partner P2 (University of Salzburg)	х	

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Course	e revised 2	2: Natural R	esource M	lanagement	(M.A. and	MSc programn	ne in geograph	ıy)			
Basic inform	ation	Fulfilment of the task	Course ma	aterials		Accreditation	Implementatio	on	Quality assessment		
Study level	Number of ECTS	of ECTS revised? available guidelines material		Other teaching materials available	Accreditation documents available	Already implemented	Evaluation by the students/ staff	Quality assessment by stakeholders	Quality assessment by EU partners	Quality assessment by an external reviewer	
M.A. and MSc	4	^	V	х	V	V	V since the academic year 2019-20 (250 students taught to date)	V	V	√ done by partner P2 (University of Salzburg)	X

New c	ourse 1: 0	Climate Cha	nge Impact	ts and Adap	tation in H	imalaya (M.A.	and MSc progr	ramme in ge	ography)		
Basic inform	ation	Fulfilment of the task	Course ma	aterials		Accreditation	Implementation	on	Quality assessment		
Study level	Number of ECTS	Already created?	Syllabus notes/ teaching available quidelines materials available available		Accreditation documents available	Already implemented	Evaluation by the students/ staff	Quality assessment by stakeholders	Quality assessment by EU partners	Quality assessment by an external reviewer	
M.A. and MSc	4	V	٧	х	٧	V	√ since the academic year 2019-20 (60 students taught to date)	V	V	√ done by partner P2 (University of Salzburg)	х

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New c	New course 2: Integrated Mountain Development with Special Reference to Indian Himalaya (M.A. and MSc programme in geography)												
Basic inform	ation	Fulfilment of the task	Course materials			Accreditation	Implementatio	on	Quality assessment				
Study level	Number of ECTS	Already created?	Syllabus available	Lecture notes/ guidelines available	Other teaching materials available	Accreditation documents available	Already implemented	Evaluation by the students/ staff	Quality Quality Quality assessment by assessment by EU assessment by stakeholders partners external review				
M.A. and MSc	4	V	V	٧	х	V	✓ since the academic year 2019-20 (50 students taught to date)	V	V	√ done by partner P2 (University of Salzburg)	х		

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Projec	Project partner: P12 (Jawaharlal Nehru University, India)											
Status o	f the delive	rables up to	28.02.2021									
2 course	es revised +	4 new coul	ses – 18 ECT	S								
Drogram	imes expec	tad ta ba			Level o	f fulfilment						
improve	•	ted to be	Activities set		Course newly o	s revised/ created	Overview of the courses provided	Accred	itation Ir	nplementation	Quality assessment	
M.A. programme in disaster studies		3 courses newly created (12 ECTS)										
	M.Phil. programme in environmental sciences 2 courses revised and 1 course newly created (6 ECTS)											
Legend	Legend (level of fulfilment) Done Ongoing Pending											
Course	revised 1:	Ecosyster	n Processes	(M.Phil. pro	gramme ir	n environmen	tal sciences)					
		Fulfilment	:	•								
Basic inf	ormation	of the	Course ma	aterials		Accreditation Implementatio		n	Quality assessment			
		task										
Study level	Number of ECTS	Already revised?	Syllabus available	Lecture notes/ guidelines available	Other teaching materials available	Accreditation documents available	Already implemented	Evaluation by the students/ staff	Quality assessment by stakeholders	assessment by assessment by EU		
M.Phil.	2	√	V	х	х	х	√ since the academic year 2020-21 (? students taught to date)	х	V	х	x	

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SUNRAISE CURRICULA AND LEARNING CONTENTS





















Course	Course revised 2: Man & Tropical Forest Ecosystem Function (M.Phil. programme in environmental sciences)											
Basic inf	Basic information		Course materials			Accreditation	Implementatio	on	Quality assessment			
Study level	Number of ECTS	Already revised?	Syllabus available	Lecture notes/ guidelines available	Other teaching materials available	Accreditation documents available	Already implemented	Evaluation by the students/ staff	Quality Quality Quality assessment by assessment by EU assessment by stakeholders partners external revie			
M.Phil.	2	V	V	х	х	х	✓ since the academic year 2020-21 (? students taught to date)	х	V	х	x	

New c	New course 1: Ecosystem Approach for Disaster Risk Reduction (M.A. programme in disaster studies)											
Basic inform	ation	Fulfilment of the task	Course materials			Accreditation	Implementation	on	Quality assessment			
Study level	Number of ECTS	Already created?	Syllabus available	Lecture notes/ guidelines available	Other teaching materials available	Accreditation documents available	Already implemented	Evaluation by the students/ staff	Quality Quality Quality assessment by assessment by partners Quality external review			
M.A.	4	V	V	٧	х	х	v since the academic year 2019-20 (? students taught to date)	v only the students have answered the questionnaire	٧	х	х	

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SUNRAISE CURRICULA AND LEARNING CONTENTS



















New co	New course 2: Himalayan Ecology (M.Phil. programme in environmental sciences)										
Basic inf	Basic information of the task		t Course materials			Accreditation	Implementatio	Implementation Quality assessment			
Study level	Number of ECTS	Already created?	Syllabus available	Lecture notes/ guidelines available	Other teaching materials available	Accreditation documents available	Already implemented	Evaluation by the students/ staff	Quality assessment by stakeholders Quality assessment by EU partners Quality assessment by external revie		
M.Phil.	2	V	٧	х	х	х	✓ since the academic year 2020-21 (? students taught to date)	х	٧	х	х

New co	New course 3: Remote Sensing, GIS for Emergency Management (M.A. programme in disaster studies)												
Basic inf	Basic information (Course materials			Accreditation	Implementatio	Implementation		Quality assessment			
Study level	Number of ECTS	Already created?	Syllabus available	Lecture notes/ guidelines available	Other teaching materials available	Accreditation documents available	Already implemented	Evaluation by the students/ staff	Quality assessment by stakeholders	Quality assessment by EU partners	Quality assessment by an external reviewer		
M.Phil.	4	V	٧	٧	٧	х	√ since the academic year 2019-20 (? students taught to date)	v only the students have answered the questionnaire	٧	х	х		

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SUNRAISE CURRICULA AND LEARNING CONTENTS



















R. USBRUN	
NIVERSITÄT	Altai-Sayan Mountain PARTNERSHIP
ALZBURG	Mountain PARTNERSHIP

New co	New course 4: Risk, Vulnerability and Resilience: Concepts and Understanding (M.A. programme in disaster studies)											
Basic info	ormation	Fulfilment of the task	Course materials			Accreditation	Implementation		Quality assessment			
Study level	Number of ECTS	Already created?	Syllabus available	Lecture notes/ guidelines available	Other teaching materials available	Accreditation documents available	Already implemented	Evaluation by the students/ staff	Quality assessment by stakeholders	Quality assessment by EU partners	Quality assessment by an external reviewer	
M.Phil.	4	٧	٧	٧	٧	х	✓ since the academic year 2019-20 (? students taught to date)	v only the students have answered the questionnaire	٧	Х	х	

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Co-funded by the Erasmus+ Programme of the European Union

Work package 2



SUNRAISE CURRICULA AND LEARNING CONTENTS

Intermediate Report

• WP2.2: new institutional and departments research agendas have been developed by most of the project partners concerned, PhD positions allocated, and "passports of PhD specialisations" revised by partners P5, P6 and P7. Due to the inexistence of a PhD programme in partner P9's institution and the impossibility to create it given administrative issues, partner P9 has reported that no PhD positions can be allocated on the topics of the project. The development of the SUNRAISE research training framework is also ongoing and it is expected to be launched shortly.

SUNRAISE research training framework									
Partners in	charge: P2 (University of Salzburg, Austria) and Anton Shkarub	a (SUNRAISE project leader)							
Status of th	ne deliverables up to 28.02.2021								
Steps	Activities set	Level of fulfilment							
STEP 1	Identification and preparation of a listing of research areas that might potentially be included in the framework	Prepared by partner P2 and the project leader (Anton Shkaruba)							
STEP 2	Sharing of the listing with the project partners P5, P6, P7, P9, P11 and P11 and conduction of modification according to their suggestions	Feedback received from partners P5, P7 and P11							
STEP 3	Creation of a questionnaire based on the different topics identified, which are of relevance in the international literature and for the project partners								
STEP 4	Distribution of the questionnaire among the partners								
STEP 5	Definition of the SUNRAISE research training framework (outlining issues and problems and discussing the latest international literature and possible directions of relevant PhD research)								
STEP 6	Submission for approval to the partners' governance bodies								
Legend (level of fulfilment) Done Ongoing Pending									

The status by each partner regarding the research agendas, PhD positions and passports of PhD specialisations is pointed out in the tables below:

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SUNRAISE CURRICULA AND LEARNING CONTENTS

Project partn	er: P5 (Russian State Hydron	neteorolog	gical	University,	Russia)					
	verables up to 28.02.2021									
_	a + 1 passport of PhD specialisation +									
Activities set			Level	of fulfilment						
	nstitutional and departments researc	ch agendas								
Allocation of PhD										
Revision of "pass	ports of PhD specialisations"									
Legend (level of t	· <u>——</u>		going		Pending					
Institutional and	departments research agendas deve	loped (1)		ı						
Title of the research agenda Already developed?										
PhD programme	(Aspirantura) "Geoecology" (Earth sci	ences)		٧	٧					
"Dassports of Dhi	O specialisations" revised (1)									
Passports of Phi	5 specialisations revised (1)			Already						
Title of the passpo				revised?	Impleme	nted?				
PhD programme	(Aspirantura) "Geoecology" (Earth sci	ences)		٧	V					
Allocation of PhD	positions (4 positions)									
Name of the PhD student	Thesis topic	Year of enrolment a graduation	and	Supervisor(s)	Bio and academic details	Short video				
Ekaterina Bulavina	Snow cover toxicity as an indicator of the ecological status of urban areas	2018 – 2022	2	?	X	х				
Ilya Pavlov	The influence of climatic parameters of the Vologda Oblast on the transport of pollutants in the atmosphere and the deposition of pollutants in urban areas	2018 – 2022	2	?	х	х				
Rahmatullozoda Akobirdzhon	Hydrochemical regime of rivers of South-Western Tajikistan	2017 – 2020)	?	х	х				
Sherali Murtazoyev	Geoecological analysis of air pollution factors in the city of Dushanbe	2018 – 2023	1	?	x	x				
Supervisors (SIIN	RAISE faculty) (3)									
Name of the supervisor	Research field				Bio and aca	demic				
Ekaterina Fertikova	Biology				V					
Larisa Timofeeva	Hydrology				٧					
Nadezhda Sanotskaya	Water engineering V									

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SUNRAISE CURRICULA AND LEARNING CONTENTS

Project partn	er: P6 (Sib	erian Federal Univ	ersity, Ru	ssia)						
Status of the deli	•									
1 research agend	a + 1 passport	of PhD specialisation +	2 PhD posit							
Activities set				Level	of fulfilr	nent				
· ·		nd departments researd	h agendas							
Allocation of PhD										
Revision of "pass	ports of PhD s	pecialisations"								
Legend (level of	fulfilment)	Done	0	ngoing			Pending			
Institutional and	departments	research agendas deve	loped (1)							
Title of the resear	Implemer	nted?								
PhD programme	(Aspirantura) ˈ			٧		٧				
"Passports of Phi	D an a sialisatia	ver" revised (1)								
Passports of Phi	Specialisatio	ins* revisea (1)			Alread	.,				
Title of the passp					revised?		Implemer	nted?		
PhD programme	(Aspirantura) '	"Ecology"			٧		٧			
Allocation of PhD	positions (2)	positions)								
Name of the PhD student	Thesis topic	,	Year of enrolment graduation		Supervi	sor(s)	Bio and academic details	Short video		
Irina Gette	•	<i>Pinus sylvestris</i> ollowing a fire	2013 – 202	19	?		٧	X		
Marina Rubleva		nigration features in of the mountain taiga	2019 – 202	23	?		٧	٧		
Supervisors (SUN	IRAISE faculty) (2)								
Name of the supervisor	Research fie	ld					Bio and aca details	demic		
Irina Bezkorovaynaya	Biology						٧			
Nina Pakharkova	Biology V									

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SUNRAISE CURRICULA AND LEARNING CONTENTS

	er: P7 (Gorno-Altaisk State U	Iniversity, Ru	ıssia)								
	verables up to 28.02.2021										
<u>~</u>	as + 2 passports of PhD specialisation										
Activities set			vel of fulfilm	ent							
•	nstitutional and departments research	h agendas									
Allocation of PhD	-										
Revision of "passports of PhD specialisations"											
Legend (level of	fulfilment) Done	Ongoi	ng		Pending						
Institutional and	departments research agendas deve	loped (2)									
Title of the resear	rch agenda		Already develop		Implemen	nted?					
PhD programme	(Aspirantura) "Ecology" (biological sci	ences)	٧		٧						
PhD programme	(Aspirantura) "Regional Economics" (e	economics)	٧		٧						
((Decements of Db)	Damasializationally variand (2)										
Title of the passp	O specialisations" revised (2) ort		Already revised?		Implemer	nted?					
PhD programme	(Aspirantura) "Ecology" (biological sci	ences)	√		٧						
	(Aspirantura) "Regional Economics" (6		<u>۷</u>		٧						
The programme	A topinantara, inegional Economics (2001101111037	•		•						
Allocation of PhD	positions (2 positions)										
Name of the PhD student	Thesis topic	Year of enrolment and graduation	Superviso	or(s)	Bio and academic details	Short video					
Olesia Orlova	Sustainable Regional Economic Development Based on the Transition to the Model of Green Economy (Based on the Example of the Altai Republic)	2017 – <mark>?</mark>	Prof. Dr. Andrei V. Glotko		٧	х					
Svetlana Kazantseva	Spatial and Ecological Structure of Mayfly (Ephemeroptera) Population in Water Bodies of Altai Mountains	2020 – <mark>?</mark>	Prof. Piot Yu. Malko		V	٧					
C	IDAICE for sulfied (2)										
	RAISE faculty) (2)				Dio and ass	domic					
Name of the supervisor	Research field				Bio and aca details	uemic					
Mariia Sukhova	Geographical Sciences				٧						
Olga Zhuravleva	Olga Zhuravleva Geographical Sciences										

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SUNRAISE CURRICULA AND LEARNING CONTENTS

Project partner: P9 (Royal University of Bhutan, Bhutan)						
Status of the deliv	verables up to 28.02.2021					
? research agenda						
Activities set		Level	of fulfilment			
Development of i	nstitutional and departments research agendas					
Allocation of PhD	positions	Not ap	plicable ^A			
Revision of "pass	ports of PhD specialisations"		plicable ^A			
Legend (level of f	Legend (level of fulfilment) Done Ongoing Pending					
Institutional and	departments research agendas developed (?)					
Title of the resear	ch agenda		Already developed?	Implemented?		
<mark>?</mark>			?	<mark>?</mark>		
<mark>?</mark>			?	<mark>?</mark>		
Supervisors (SUN	RAISE faculty) (?)					
Name of the supervisor	Research field			Bio and academic details		
?	?			?		
?	?			?		

^A Due to the inexistence of a PhD programme in partner P9's institution and the impossibility to create it given administrative issues, partner P9 has reported that no PhD positions can be allocated on the topics of the project. The revision of "passports of PhD specialisations" is only planned for Russian academic partners.

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SUNRAISE CURRICULA AND LEARNING CONTENTS

Project partner: P11 (Kumaun University, India)					
Status of the deliverables up to 28.02.2021					
1 research agendas + 10 PhD positions					
Activities set Level of fulfilment					
Development of institutional and departments research agendas					
Allocation of PhD positions					
Revision of "passports of PhD specialisations"	Not applicable ^A				
Legend (level of fulfilment) Done O	ngoing Pending				

Institutional and departments research agendas developed (1)				
Title of the receased agenda	Already	Implemented?		
Title of the research agenda	developed?	implementeur		
PhD Programme "Geography"; including the following research areas ^B :				
 Application of Remote Sensing and GIS 				
 Mountains Climate Change Impact and Adaptation 	V	d		
 Natural Hazards Management and Disaster Risk Reduction 	V	V		
- Sustainable Mountain Urbanisation				
- Sustainable Tourism Development				

Allocation of Ph	Allocation of PhD positions (10 positions)					
Name of the PhD student	Thesis topic	Year of enrolment and graduation	Supervisor(s)	Bio and academic details	Short video	
Arifa Begum	A Geographical Study of Urban Growth and Quality of Life in the Himalayan Foothills of Kumaun	2018 – 2022- 23	Prof. P. C. Tiwari and Dr. Sandeep Maithani	٧	٧	
Dheeraj Pant	Climate Change and its Impact on Community Health in Betalghat Development Block, Kumaon Lesser Himalaya	2017 – 2022- 23	Prof. P. C. Tiwari	٧	٧	
Kevala Nand	Impact of Climate Change on Water Resources in Kujgad Watershed, Kumaun Himalaya	2017 – 2022- 23	Prof. P. C. Tiwari	٧	٧	
Manika Kweera	Sustainable Urban Development under Climate Change in the Lake Region of District Nainital, Uttarakhand [Proposed]	2020 – <mark>?</mark>	Prof. P. C. Tiwari	٧	٧	
Manisha Pant	Climate Change and its Impact on Human Health in Mountainous and Foothill Regions of District Nainiral, Uttarakhand	2018 – 2022- 23	Prof. P. C. Tiwari	٧	X	
Mohan Singh	Impacts OF Climate Change on Agriculture, Food Security and Rural Health in Balia Catchment, Kumaon Himalaya [Ph.D. Dissertation Submitted]	2014 – 2020	Dr. Bhagwati Joshi	٧	x	

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SUNRAISE CURRICULA AND LEARNING CONTENTS

Pooja Nainwal	Women's Perception, Responses and Adaptation to Climate Change in Ramgad Watershed, Kumaun Himalaya, Uttarakhand	2018 – 2022- 23	Prof. P. C. Tiwari	٧	٧
Rahul Kumar	Impact of Climate Changes on Farming System and Food Security in Kujgad Watershed, Kumaon Himalaya	2020 – <mark>?</mark>	Prof. P. C. Tiwari	٧	٧
Ritika Vishnoi	Changes in Rainfall Pattern and its Impact on Food Security status in Ramgad Catchment of Kumaun Himalaya: A Community based Adaptation Strategy	2013 – 2020- 21	Prof. P. C. Tiwari	V	٧
Vaseem Ahmad	Impact Of Climate Change on Water Resources: A Case Study of Balia Catchment, District Nainital, Uttarakhand	2017 – 2022- 23	Dr. Bhagwati Joshi	٧	X

Supervisors (SUNRAISE faculty) (2)				
Name of the supervisor	Research field	Bio and academic details		
Bhagwati Joshi	Geography	٧		
Prakash C. Tiwari	Geography	V		

^A The revision of "passports of PhD specialisations" is only planned for Russian academic partners.

^B Note: As per the University Rule it is not allowed to fix an agenda for Ph.D. research. However, based on the recommendations of the Workshop organized at Kumaun University (Nainital) on May 2018 we have suggested the Departmental Faculty Members to focus on the research agenda mentioned above both for Ph.D. Research and Dissertations at Master's Level. The majority of Ph.D. Researches as well as Master's Dissertation are focusing broadly on the areas mentioned in the Table above. This is endorsed by the Ph.D. Research title of the 6 Ph.D. Students in the Table below.

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SUNRAISE CURRICULA AND LEARNING CONTENTS

Project partner: P12 (Jawaharlal Nehru University, India)						
Status of the deliverables up to 28.02.2021						
1 research agendas + 6 PhD positions						
Activities set	Level of fulfilment					
Development of institutional and departments research agendas						
Allocation of PhD positions						
Revision of "passports of PhD specialisations"	Not applicable ^A					
Legend (level of fulfilment) Done Ongoing Pending						

Institutional and departments research agendas developed (1)		
Title of the research agenda	Already developed?	Implemented?
PhD Programme "Environmental sciences"; including the following research areas: - Ecosystem Services in Western Himalayan Eco region - Fire Ecology in Tropical forest - Road Ecology in Himalayan foothills - Vulnerability Assessment in Western Himalayan Eco region	٧	٧

Allocation of I	Allocation of PhD positions (6 positions)					
Name of the PhD student	Thesis topic	Year of enrolment and graduation	Supervisor(s)	Bio and academic details	Short video	
Anees MM	Characterising urban ecosystems in the capital cities of the Western Himalaya	2018 – <mark>?</mark>	Prof. P.K. Joshi	٧	٧	
Deepika Mann	Spatio-temporal analysis of effects of road network in Central Himalayan region	2018 – <mark>?</mark>	Dr. Shalini Rankavat and Prof. P.K. Joshi	٧	٧	
Neha Chauhan	Socio-environmental vulnerability of agricultural communities to climate change in Western Himalaya	2019 – <mark>?</mark>	Prof. P.K. Joshi and Prof. Dr. Henrik von Wehrden	V	V	
Praveen Kumar	Assessing climate change vulnerability and adaptation strategies of socio-ecological systems in the Central Himalaya	2018 – <mark>?</mark>	Prof. P.K. Joshi	٧	٧	
Saurabh Kaushik	Understanding eastern Himalaya cryosphere using remote sensing	2018 – <mark>?</mark>	Prof. P.K. Joshi and Dr. Tejpal Singh	٧	٧	
Sonali Sharma	Regulating ecosystem services in urbanising landscapes of Western Himalaya	2020 – <mark>?</mark>	Prof. P.K. Joshi	٧	٧	

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SUNRAISE CURRICULA AND LEARNING CONTENTS

Supervisors (SUNRAISE faculty) (4)				
Name of the supervisor	Research field	Bio and academic details		
Deep N Pandey	Political geography	٧		
Jayant K Tripathi	Environmental sciences	٧		
Pawan K. Joshi	Environmental sciences	٧		
Satish C Garkoti	Botany	٧		

^A The revision of "passports of PhD specialisations" is only planned for Russian academic partners.

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Work package 2



SUNRAISE CURRICULA AND LEARNING CONTENTS

Intermediate Report

WP2.3: two open call international summer schools have been successfully conducted in summer 2018 and 2019, respectively, and work has already started for the organisation of the third international SUNRAISE summer school, which was scheduled for summer 2020, but will be held in summer 2021, due to the covid-19 situation in 2020, which is severely constraining the carrying out of international events worldwide. Additionally, 13 onsite seminars and several short study visits have been carried out.

Open call international summer schools							
Status of the deliverables up to 28.02.2021							
2 summer schools conducte	d + 1 third summer school	planned					
Title of the summer school Organiser(s) Date Number of quality assessment assessment participants							
Monitoring and Early Warnings in Mountain Social-Ecological Systems	P6 (Siberian Federal University, Russia) and P7 (Gorno-Altaisk State University, Russia)	15-29 July 2018	47	√ done			
Sustainable Natural Resource Use in Arctic and High Mountainous Areas	P2 (University of Salzburg, Austria)	07-21 July 2019	78	√ done			
ACT! Arctic Sustainability: Policy and Management Innovations for Transboundary Problems	P5 (Russian State Hydrometeorological University, Russia)	Scheduled for 17-28 August 2020 but postponed due to the covid-19 situation to August 2021	-	-			





Summer school 2018 in Krasnoyarsk and Gorno-Altaisk (1)

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SUNRAISE CURRICULA AND LEARNING CONTENTS



Summer school 2018 in Krasnoyarsk and Gorno-Altaisk (2)







Summer school 2019 in Salzburg

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SUNRAISE CURRICULA AND LEARNING CONTENTS

Intermediate Report

Onsite seminars			
Status of the deliverables up to 28.	02 2021		
9 onsite seminars	.02.2021		
Title of the seminar	Organiser(s)	Date	Number of participants
SUNRAISE Russia's Start-up Seminar and stakeholder workshop	P5 (Russian State Hydrometeorological University, Russia)	12-13 March 2018	28
Stakeholder Seminar for Faculty, Researchers, Local Level Policy Makers and for Ph.D. Students	P11 (Kumaun University, India)	17 November 2018	-
Stakeholder Seminar for Faculty, Researchers, Local Level Policy Makers, and for Ph.D. Students	P11 (Kumaun University, India)	27-28 June 2019	-
Joint Seminar of ERASMUS+ CBHE Projects	P3 (Estonian University of Life Sciences, Estonia)	20-24 May 2019	38
Workshop on Google Earth Engine (GEE) for Beginners	P12 (Jawaharlal Nehru University, India)	07 August 2019	52
On Site Orientation Seminar for Ph.D. Students	P11 (Kumaun University, India)	August 2019	-
Workshop on Heritage Conservation & Management	P12 (Jawaharlal Nehru University, India)	02 September 2019	20
On Site Orientation Seminar for Ph.D. Students in Rudrapur	P11 (Kumaun University, India)	September 2019	-
Seminar for Faculty, Researchers, and for Ph.D. Students	P11 (Kumaun University, India)	10 October 2019	-
Development of Massive Open Online Courses in Order to Promote Sustainable Development of Arctic and High Mountainous Areas	P7 (Gorno-Altaisk State University, Russia)	27 November 2019	20
SUNRAISE project seminar «Sustainable Natural Resource Use in Arctic and High Mountainous Areas»	P6 (Siberian Federal University, Russia)	29-31 January 2020	17
Winter School on Q-GIS	P12 (Jawaharlal Nehru University, India)	3-7 February 2020	15
Winter School on SAGA GIS	P12 (Jawaharlal Nehru University, India)	10-14 February 2020	15

05. Results

The fulfilment of the project activities within work package 2 has led to a substantial improvement of the teaching programmes and research agendas in the involved project partners' institutions and has served as an exceptional platform for the exchange of ideas among students and investigators from institutions from very different socio-ecological contexts.

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SUNRAISE CURRICULA AND LEARNING CONTENTS

Intermediate Report

All teaching programmes targeted and requiring improvements have been updated. On 28.02.2021, a total of 35 ECTS have been revised and 39 ECTS newly created, which surpasses the objective of approximately 12 revised and 30 new ECTS established during the conception of the project. All concerned project partners have already uploaded the new syllabus and learning materials, accredited the updated/ new courses, and started with their implementation. The number of credits in every course have turned out to be appropriate in all cases, as well as the position of the courses in curricula. Strategies for improvement during the quality assessment concern specially the practical and self-learning approach in some courses, which is being discussed right now. Results on the revised/ new courses are made available in the SUNRAISE webpage: http://sunraise.sfu-kras.ru/sunraiser.

On the other hand, altogether, 6 institutional and departments research agendas have been developed at Russian, Indian and Bhutanese partners' higher education institutions (see: http://sunraise.sfukras.ru/node/99), 13 staff members designated as SUNRAISE faculty (see: http://sunraise.sfukras.ru/community/faculty), 24 PhD allocated (see: http://sunraise.sfuand positions kras.ru/results/PhD students), which surpasses again the objective of at least 7 PhD positions. Russian partners P5, P6 and P7 have additionally updated 4 passports of PhD specialisations. The creation of the SUNRAISE research training framework is, additionally, also underway and a the first draft will be released before long. The fact that it is still under construction is due to unexpected circumstances that are not in the responsibility of the project partner and that will be solved very soon.

The development of all activities within sub-package 2.3, including the summer schools and onsite seminars, resulted in a very satisfactory experience and very enriching learning process for all participants. During the summer schools, the inclusion of local stakeholders and international professionals from within and outside the consortium and with very different experiences made the discussions very enriching and exciting for all attendees. A wide range of theoretical concepts and practical knowledge was shared among all participants, which is becoming crucial for the successful development of the project and being very enriching for all participating partners and institutions in order to better support the sustainable development of mountain and artic environments. In order to keep all interested people informed on these events, results and agenda have been uploaded on the SUNRAISE webpage: http://sunraise.sfu-kras.ru/activities.

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