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Knowledge FOr Resilient soCiEty

UNIVERSITY OF NOVI SAD

Task 1.3 Presentation of modernized DRM&FSE MPs Curricula

Faculty of Technical Sciences in Novi Sad
Department for Civil Engineering and Geodesy

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Task 1.3 Presentation of developed DRM&FSE MPs Curricula

- Status of activity: **ON-GOING**
- Plans and first syllabi structure drafts for modernized MP curricula are created.
- UNS: introduction of new subjects was approved (as elective courses)
 - *Risk analysis in the decision-making process*
 - *Financial resilience to hazards*
- **Only possibility according to Serbian Higher Education Law and Rules of Accreditation for the next - 2017/2018 School year**



Task 1.3 Presentation of modernized DRM&FSE MPs Curricula

Programme name	Disaster Risk Management and Fire Safety
Independent higher education institution where the programme is being executed	University of Novi Sad
Higher education institution where the programme is being executed	Faculty of Technical Sciences
Educational-scientific/educational-art field	Interdisciplinary
Scientific, professional or art field	Industrial Engineering and Management, Civil Engineering, Environmental Engineering
Type of studies	Master Academic Studies
Study scope, expressed in ECTS	60-61
Academic degree, abbreviation	Master in Disaster Risk Management and Fire Safety, M.Dis.Ris.Managem.Fir.Saf.

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Task 1.3 Presentation of modernized DRM&FSE MPs Curricula

Study length	1 year
Programme implementation starting year	2011
Future course implementation starting year (for new programme)	2018
Number of students attending this programme	14
Planned number of students to be enrolled in this programme	32
Programme approval date (state the approval issuer)	14.11.2012 - Science Education Council 29.11.2012 - University of Novi Sad Senate
Programme language	Serbian, English
Programme accreditation year	2011 reaccruited 2013
Web address containing programme information	http://www.ftn.uns.ac.rs

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Table 5.1 Courses schedule by semester and year of study

Study programme: Disaster Risk Management and Fire Safety

No.	Course ID	Course name	S	Type	Status	Active lessons				Other classes	ECTS
						Lec	Pra	SRW	OTT		
FIRST YEAR											
1	11.ZP501	Integrated Natural Disaster Risk Management	1	SA	M	2	2	0	0	0.00	4
2	06.URZP62	Assessment of Damaged Structures	1	NS	M	2	2	0	0	0.00	4
3	06.ZP512	Protection and Rescue Plans	1	SA	M	2	1	0	0	0.00	3
4	06.ZP508	Design and Maintenance of the Fire Detection Systems	1	SA	M	2	2	0	0	0.00	4
5	06.ZP507	Design and Maintenance of Stationary Fire Extinguishing Systems	1	SA	M	2	2	0	0	0.00	4
6	06.ZP514	Planning and organizing activities during events with catastrophic consequences	1	SA	M	2	2	0	0	0.00	3
7	06.Z506	20BAdvanced Course in Mathematics 1	1	AO	M	2	1	0	1	0.00	3
8	06.ZPMI4	Elective Course 1 (select 1 out of 2)	1		EB	2	1	0	0	0.00	3
		06.URZP65	Geodetic methods for the determination of geodynamic movements	1	ns	E	2	1	0	0	3
		06.ZP506	Crisis Management	1	SA	E	2	1	0	0	3
9	06.ZPMI3	Elective Course 2 (select 1 out of 2)	2		EB	2	1	0	0	0.00	3
		06.URZP55	Fire and Explosion Protection due to Electricity	2	sa	E	2	1	0	0	3
		06.URZP63	Safety of Strategic Energy Facilities	2	ns	E	2	1	0	0	3
10	12.ZPMI5	Elective Course 3 (select 1 out of 2)	2		EB	2	1	0	0	0.00	3-4
		06.URZP64	The role of media in reducing the risk	2	ns	E	2	1	0	0	3
		06.ZP509	Investigation of Fire and Explosion	2	SA	E	2	1	0	0	4
11	12.ZPMI6	Elective Course 4 (select 1 out of 2)	2		EB	2	2	0	0	0.00	3
		06.ZP515	Qualitative and quantitative methods of risk management	2	SA	E	2	2	0	0	3
		12.ZP516	Technical Systems Reliability	2	TM	E	2	2	0	0	3
12	06.Z504	Professional practice	2	SA	M	0	0	0	0	3.00	3
13	06.URZP02	Study Research Work on theoretical basis of the master thesis	2	NS	M	0	0	9	0	0.00	10
14	06.URZP01	Master Thesis – Elaboration and Defence	2	SA	M	0	0	0	0	8.00	10
Active lessons - total:						49					
										Total ECTS:	60-61

ELECTIVE +1



ELECTIVE +1



➤ **Risk analysis in the decision-making process**

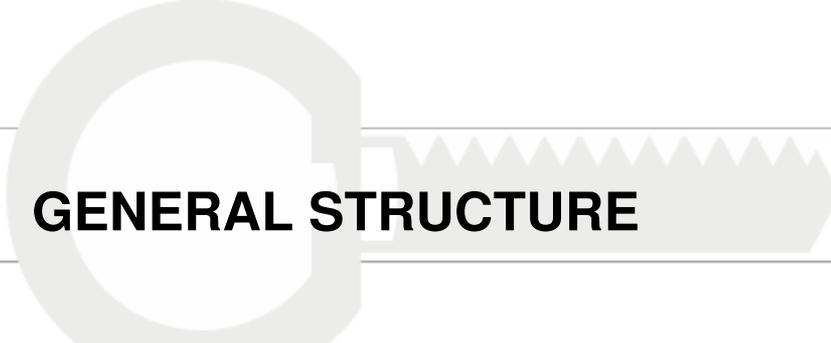
➤ **Financial resilience to hazards**

No.	Course ID	Course name	S	Type	Status	Active lessons				Other classes	ECTS
						Lec	Pra	SRW	OTT		
4	06.ZPMI0	Elective Course 1 (select 1 out of 2)	1		IB	2	2	0	0	0.00	4
	06.ZP508	Design and Maintenance of the Fire Detection Systems	1	SA	I	2	2	0	0	0	4
	06.ZP510	Risk Analysis in Decision-making Process	1	SA	I	2	2	0	0	0	4
5	06.ZPMI1	Elective Course 1 (select 1 out of 2)	1		IB	2	2	0	0	0.00	4
	06.ZP507	Design and Maintenance of Stationary Fire Extinguishing Systems	1	SA	I	2	2	0	0	0	4
	06.ZP511	Financial Resilience to Hazards	1	SA	I	2	2	0	0	0	4

2017/2018 School Year

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GENERAL STRUCTURE

➤ ***Risk analysis in the decision-making process***

- Advanced risk analysis methodologies,
- selection and application of appropriate quantitative and qualitative methods of analysis and risk assessment,
- planning strategies in decision-making process.

Literature:

- *Michael Havbro Faber, Statistics and Probability Theory: In Pursuit of Engineering Decision Support (Topics in Safety, Risk, Reliability and Quality), Springer, 2012*
- *Roger C. Huder, Disaster Operations and Decision Making, Wiley, 2012*

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➤ **Financial Resilience to Hazards**

- Disaster risk assessment and risk financing,
- financing tools to facilitate management of risks,
- planning strategies and assessing prevention needs,
- risk reduction measures.

Literature:

- *Vinod Thomas, Climate Change and Natural Disasters: Transforming Economies and Policies for a Sustainable Future,, Transaction Publishers, 2017*
- *Birkman, J. Measuring Vulnerability to Natural Hazards: Towards Disaster Resilient Societies, UNU Press, 2004*

2017/2018 School Year

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Thank you for your attention

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