

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Predmet: INTERVENCIJE IN REŠEVANJE
Course Title: INTERVENTIONS AND RESCUE

Študijski program in stopnja Study Programme and Level	Študijska smer Study Field	Letnik Academic Year	Semester Semester
MAG Tehniška varnost, 2. stopnja	/	1.	2.
USP Technical Safety, 2 nd Cycle	/	1 st	2 nd

Vrsta predmeta / Course Type:

obvezni / Mandatory

Univerzitetna koda predmeta / University Course Code:

TV204

Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Klinične vaje Work	Druge oblike študija	Samost. delo Individual Work	ECTS
60	/	15 SV	/	/	75	5

Nosilec predmeta / Lecturer:

doc. dr. Klementina Zupan / Dr. Klementina Zupan, Assistant Professor

Jeziki / Languages:

Predavanja / Lectures: slovenski / Slovenian

Vaje / Tutorial: slovenski / Slovenian

Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti:

Študent oz. kandidat mora imeti predmet opredeljen kot študijsko obveznost.

Prerequisites:

The course has to be assigned to the student.

Vsebina:

- Organizacija ter sestava sil za interveniranje v RS
- Vloga lokalnih, občinskih in državnih ustanov
- Načrtovanje operacij
- Vodenje operacij
- Ključni elementi ukrepanja v sili in ob katastrofalnih dogodkih
- Ravnanje z nevarnimi snovmi v primeru intervencije ob potresu, požaru, porušitvi objektov itd.
 - hierarhija ukrepanja
 - sile za reševanje

Content (Syllabus outline):

- The organization and structure of forces for intervention in RS
- The role of local, municipal and state institutions
- Planning of operations
- Conducting operations
- Key elements of the emergency response and the catastrophic events
- Handling of hazardous substances in the event of intervention by the earthquake, fire, collapse of buildings, etc..
 - Hierarchy of action
 - Force rescue

g) Analiza nekaterih intervencij in ukrepov (v povezavi z MNZ in MORS)

h) Načini in metode reševanja v primeru nezgodnih dogodkov

i) Dostopne poti in delovne površine za gasilska intervencijska vozila

- SIST DIN 14090
- dovozne poti za gasilska intervencijska vozila

delovne intervencijske površine

- izvedba dostopov in stopnišč za gasilce v objektih
- izvedba dvigal za gasilce

j) Organiziranost in opremljenost gasilcev (poklicni in prostovoljni)

- oblike organiziranosti gasilskih enot
- merila za opremljanje gasilskih enot (poklicni, prostovoljnih)

k) Načrtovanje poteka gašenja v primeru požara

- kdo lahko gasi
- kaj je osnova za načrtovanje gašenja
- kako se gasijo začetni požari

l) Ocenjevanje škod v primeru večjih nezgod

m) Kazenske odgovornosti in pravne podlage

n) Odprava posledic

g) An analysis of some of the interventions and actions (in conjunction with the Ministry of Interior and Ministry of Defence)

h) The methods and procedures to solve the case of an accidental event

i) Access routes and work areas for fire emergency vehicles

- SIST DIN 14090
- Access routes for fire emergency vehicles
- Working intervention area
- Implementation of access and staircases for firefighters in buildings
- Implementation of elevators for firefighters

j) The organization and equipment of firefighters (professional and volunteer)

- Forms of organization of fire brigades
- Criteria for equipping fire brigades (professional, voluntary)

k) Planning firefighting takes place

- Who can be quenches
- What is the basis for the design fire fighting
- How to extinguish fires start

l) Assessment of damages in case of major accidents

m) The criminal liability and legal basis

n) Elimination of the effects

Temeljna literatura in viri / Readings:

Cooper D., Fundamentals of Search and Rescue, NASAR, 2005

George S. Everly, Jr., Ph.D., F.A.P.M., and Jeffrey T. Mitchell, Ph.D.,
Critical Incident Stress Management: A New Era and Standard of Care in Crisis Intervention

Revija Ujma

Revija Industrial Fire Journal

Cilji in kompetence:

Cilj predmeta je spoznati in usposobiti študente z osnovnimi operacijami vodenja in nadzora intervencij ter reševanj ob večjih nezgodah. Poudarek pri predmetu bo na preučevanju nekaterih praktičnih primerov ter analiziranju kriznih situacij. Študenti se bodo v povezavi z Ministrstvom za obrambo - Izobraževalnim centrom za zaščito in

Objectives and Competences:

The aim of this course is to train students to meet the basic operations management and control interventions and bailouts during major incidents. The focus of the course will be on examining some practical examples and analysing crises. Students will be in conjunction with the Ministry of Defence - Training Centre

reševanje, srečali tudi z praktičnimi prikazi posameznih vrst reševanja.

for Civil Protection and Disaster Relief, also met with demonstrations of certain types of dispute.

Predvideni študijski rezultati:

Znanje in razumevanje

Študentje naj bi pridobil osnovna teoretska in praktična znanja, ki so potrebna za pripravo, organiziranje in vodenje postopkov zaščite in reševanja. Spoznali bodo tako nujne postopke, standardne operativne postopke in metode vodenja in postopke odločanja.

Uporaba

Študentje bodo spoznali temeljne osnove na področju akcij zaščite in reševanja.

Refleksija

Teoretska in praktična znanja bo lahko študent uporabil pri reševanju praktičnih in teoretskih problemov (študij in praksa).

Prenosljive spretnosti

Potrebno je predznanje predmetov:

- Analize tveganja
- Vodenje tveganja
- Človeški in organizacijski dejavniki
- Nevarne snovi
- Gorenje in dinamika požarov

Intended Learning Outcomes:

Knowledge and Comprehension

Students should acquire basic theoretical knowledge and practical skills that are necessary for the preparation, organization and management of emergency response procedures. They will learn so emergency procedures, standard operating procedures and methods of management and decision-making processes.

Application

Students will learn the fundamental basics in the field of protection and rescue actions.

Analysis

The student in solving practical and theoretical problems (study and practice) will use theoretical and practical knowledge.

Skill-transference Ability

Required is knowledge of objects:

- Risk Analysis
- Management of Risk
- Human and organizational factors
- Dangerous substances
- Combustion and fire dynamics

Metode poučevanja in učenja:

Predavanja
Vaje

Learning and Teaching Methods:

lectures
exercises

Načini ocenjevanja:

Seminarske vaje
Pisni izpit

Delež (v %) /

Weight (in %) **Assessment:**

Seminarske vaje	20%	Seminar work
Pisni izpit	80%	Written exam

Reference nosilca / Lecturer's references:

- **ZUPAN, Klementina, MARINŠEK, Marjan.** Combustion-derived $\text{La}_{1-x}\text{Sr}_x\text{Mn}_{0.5}\text{Cr}_{0.5}\text{O}_{3+\delta}$ ($x = (0.20, 0.25)$) perovskite : preparation, properties, characterization = Zgorevalno sintezo pridobljen perovskit $\text{La}_{\text{spodaj}}(1-x)\text{Sr}_{\text{spodaj}}\text{xMn}_{\text{spodaj}}0,5\text{Cr}_{\text{spodaj}}0,5\text{O}_{\text{spodaj}}(3+\delta)$ ($x = (0,20, 0,25)$) : priprava, lastnosti, karakterizacija. *Materiali in tehnologije*, ISSN 1580-2949. [Tiskana izd.], no. 6, 2014, str. 885-891, ilustr. [COBISS.SI-ID 1536154563]
- **ZUPAN, Klementina, MARINŠEK, Marjan, NOVOSEL, Barbara.** Combustible precursor behaviour in the lanthanum chromite formation process = Termične lastnosti reakcijskega gela za pripravo

lantanovega kromita. *Materiali in tehnologije*, ISSN 1580-2949. [Tiskana izd.], 2011, vol. 45, no. 5, str. 439-445. [COBISS.SI-ID 35456261]

- MARINŠEK, Marjan, **ZUPAN, Klementina**. Microstructure evaluation of sintered combustion-derived fine powder NiO-YSZ. *Ceramics international*, ISSN 0272-8842. [Print ed.], 2010, vol. 36, no. 3, str. 1075-1082, doi: 10.1016/j.ceramint.2009.12.014. [COBISS.SI-ID 34080773]

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