Univerza na Primorskem
Università del Litorale
University of Primorska

Titov trg 4 • SI-6000 Koper
+386 (0)5 611 75 53
info@upr.si • www.upr.si

UČNI NAČRT MIKRODOKAZILA/MICRO-CREDENTIAL SYLLABUS

Naziv mikrodokazila: *Micro-credential title:*	Nadaljnje usposabljanje za učitelje in vodje usposabljanja vajencev, ažurne informacije iz raziskav in prakse Further training for teachers and trainers of apprentices, Up-to-date information from research and practice
Študijsko področje po KLASIUS P-16 *Study field according to KLASIUS P-16:*	073
Razvrstitev v SOK: *SQF Classification in*	7
Razvrstitev v EOVK: *QF-EHEA Classification*	1 stopnja
Razvrstitev v EOK: *EQF Classification*	6
Univerzitetna koda/*University code:*	
Način izvedbe (klasično, hibridno, na daljavo) *Method of implementation (classic, hybrid, online)*	klasično, na daljavo classic, online

Predavanja *Lectures*	**Seminar** *Seminar*	**Vaje** *Tutorial*	**Klinične vaje** *Clinical work*	**Druge oblike študija** *Other forms of study*	**Samostojno delo** *Individual work*	**ECTS**
6		6		8	10	1

Nosilec predmeta/*Lecturer*: **(So)izvajalci**/(*Co)-Lecturers:*	Prof. Dr. Andreja Kutnar Prof. Dr. Wolfgang Gindl-Altmutter, BOKU DI (FH) Stefan Leitner, Holzbau Austria
Jezik izvedbe *Language of instruction*	Nemščina German

Univerza na Primorskem
Università del Litorale
University of Primorska

Titov trg 4 • SI-6000 Koper
+386 (0)5 611 75 53
info@upr.si • www.upr.si

Maksimalno število udeležencev *Maximum number of participants:*	30

Merila za izbor udeležencev v primeru večjega interesa od razpisanih mest:	*Criteria for selecting participants in the event of greater interest than the number of places available:*
Datum prijave	Date of application

Pogoji za vključitev:	*Prerequisites:*
Učitelji na poklicnih šolah: ustrezna izobrazba s področja mizarstva / tehnologije mizarstva, npr. vajeništvo v mizarstvu / tehnologiji mizarstva ali druga ustrezna izobrazba (npr. srednja tehniška šola – HTL, visoka strokovna šola – FH, univerza s področjem lesene gradnje), ali večletne praktične izkušnje ter diploma iz pedagoške smeri (Bachelor of Education) ali enakovredna izobrazba. Mojstri lesene gradnje, mentorji vajencev v podjetjih z ustreznimi strokovnimi kvalifikacijami.	Teachers at vocational schools: relevant training in carpentry / carpentry technology: e.g. apprenticeship in carpentry / carpentry technology or other relevant training (HTL, FH, university with timber construction) several year of practical experience and Bachelor of Educatio or equivalent Wood construction master craftsmen, apprentice trainers in companies with relevant specialist qualifications.

Vsebina:	*Content (Syllabus outline):*
Izvedba prek spleta: teoretični uvod v aktualne teme iz raziskav in prakse na področju gradnje z lesom (npr. gradbena fizika, analiza življenjskega cikla stavb – LCA, digitalne metode proizvodnje, ...) Izvedba v živo: za razpravo, utrjevanje znanja ter skupni razvoj učnih gradiv za pouk v poklicnih šolah. Ekskurzija na lokacije s	Online webinar: theoretical input on current topics from research and practice in the field of timber construction (e.g. building physics, LCA of buildings, digital production methods, ...) Face-to-face Workshop for discussion and consolidation and for the joint development of teaching and learning materials for vocational school lessons. Excursion to stations with practical demonstrations (e.g. building sites,

Univerza na Primorskem
Università del Litorale
University of Primorska

Titov trg 4 • SI-6000 Koper
+386 (0)5 611 75 53
info@upr.si • www.upr.si

praktičnimi prikazi (npr. gradbišča, mizarske delavnice ali digitalne proizvodne enote, ...). Predviden časovni okvir: Izvedba prek spleta: 2 uri (z 2–3 predavatelji) Izvedba v živo: 2 dni • 1 dan delavnice za poglobitev vsebine spletnega seminarja • 1 dan ekskurzije v podjetja, referenčne stavbe, raziskovalne ustanove, ...	workshops of carpentries or digital productions facilities, ...) Estimated time frame: Webinar: 2 hours (with 2-3 presenters) Presence seminar: 2 days • 1 day workshop to elaborate and deepen the content of the webinar, • 1 day excursion to companies, reference buildings, research institutions, ...

Literatura in viri/*Readings:*

Poudarki izobraževanja bodo določeni v odprtem inovacijskem procesu, skupaj z mentorji vajencev in učitelji v poklicnih šolah. / The focuses of the course will be determined in an open innovation process, together with traines of apprentices and teachers in vocational schools.

Druge pomembne sestavine (npr. licence, orodja, pripomočki ipd.):	*Other important components (e.g. licenses, tools, utilities, etc.):*
Izobraževanje se izvaja v sodelovanju z Upper Austrian University of Education kot dodatno izobraževanje za učitelje poklicnih šol.	This course is offered in co-operation with the Upper Austrian University of Education as further training for vocational school teachers.

Cilji in kompetence:	*Objectives and competences:*
Tekom tega izobraževanja učitelji poklicnih šol pridobijo vpogled v aktualna spoznanja iz raziskav in strokovne prakse na področjih, ki jih sami poučujejo. Skupaj bodo razvijali koncepte ter učna in izobraževalna gradiva, kako ta nova spoznanja in proizvodne metode prenesti na prihodnje vajence – usposobljene delavce – v učilnici.	In this course, teachers at vocational schools gain an insight into current findings from research and professional practice in subjects they teach themselves. They will jointly develop concepts as well as teaching and learning materials on how these new findings and production methods can be transferred to future skilled workers apprentices in the classroom.

Univerza na Primorskem
Università del Litorale
University of Primorska

Titov trg 4 • SI-6000 Koper
+386 (0)5 611 75 53
info@upr.si • www.upr.si

Predvideni učni izidi:	*Intended learning outcomes:*
Znanje in razumevanje: Poznavanje aktualnih raziskav in strokovne prakse. Sposobnost za analizo, sintezo in predvidevanje rešitev ter njihovih posledic konkretnih problemov z uporabo znanstvenih metod. Uporaba in refleksija: Spoznavanje in razumevanje aktualnih raziskav in strokovne prakse, uglašenosti med teorijo in njeno aplikacijo na konkretnih primerih. Avtonomnost, (samo)kritičnost, (samo)refleksivnost. Prenos naučenih principov na načrtovanje obsežnih realnih sistemov. Sposobnost pridobivanja, slekcije in ocenjevanje novih informacij in zmnožnost ustrezne interpretacije v kontekstu. Sposobnost za upravljanje s časom, za samo pripravo in načrtovanje ter samokontrolo izvajanja postopkov. Sposobnost timskega dela.	*Knowledge and understanding:* Expertise in current findings from research and professional practice. The ability for analysis, synthesis and anticipation of solutions and their consequences for target problems using the scientific methodology. *Use and reflection:* Understanding and recognizing current findings from research and professional practice, the harmony between theory and its application to concrete examples. Autonomy, (self)criticism, (self-reflection. Transfer of learned principles to the design of large-scale real systems. Ability to acquire, select, and evaluate new information and the capacity for appropriate interpretation in context. Ability to manage time, self-preparation and planning, and self-monitoring of process execution. The ability to work in a team.

Metode učenja in poučevanja	*Learning and teaching methods:*
Oblike dela: • predavanja • vaje • samostojno delo • delavnice Metode dela: razlaga, dialog, diskusija, problemsko učenje, študije primerov	Forms of teaching: • lectures • exercises • individual work • workshops Teaching methods: explanation, debates, discussion, problem-based learning, case studies

Univerza na Primorskem
Università del Litorale
University of Primorska

Titov trg 4 • SI-6000 Koper
+386 (0)5 611 75 53
info@upr.si • www.upr.si

Način preverjanja in ocenjevanja: *Type of examination and assessment:*

Način (pisni izpit, ustni izpit, naloge, idr.)	Delež (v %): *Weight (in %)*	*Type (written exam, oral exam, assignments, etc.)*
Projektna naloga	100%	Project assignment

Pogoji za pridobitev mikrodokazila: *Minimal standards for obtaining micro-credential:*

Udeleženec mora obiskovati usposabljanje in oddati ustrezno projektno nalogo.	The participant must attend the training and submit the relevant project assignment.

Reference nosilca/*Lecturer's references:*

KUTNAR, Andreja, SANDAK, Anna Malgorzata, SANDAK, Jakub Michal. Sustainable architecture : reuse and recycling with biomaterials. Rassegna di architettura e urbanistica. sett.-dic. 2024, anno 59, n. 174, str. 112-118

KUTNAR, Andreja. An introduction to the New European Bauhaus and NEB Academy : commentary. International wood products journal. 2025, vol. <online first>, no. , str. 1-2, ilustr. ISSN 2042-6453. https://journals.sagepub.com/doi/10.1177/20426445251395939, DOI: 10.1177/20426445251395939

SANDBERG, Dick, KUTNAR, Andreja, KARLSSON, Olov, JONES, Dennis. Wood modification technologies : principles, sustainability, and the need for innovation. 1st ed. Boca Raton; abingdon: CRC Press, 2021. X, 431 str., ilustr., graf. prikazi, tabele. ISBN 978-1-138-49177-9, ISBN 978-0-367-76782-2.

SUTTIE, Ed, HILL, Callum A. S., SANDIN, Gustav, KUTNAR, Andreja, GANNE-CHÉDEVILLE, Christelle, LOWRES, F., DIAS, Ana Cláudia. Environmental assessment of bio-based building materials. V: BRISCHKE, Christian (ur.), JONES, Dennis (ur.). Performance of bio-based building materials. Duxford: Elsevier Woodhead Publishing, 2017. Str. 546-591, graf. prikazi. Woodhead publishing series in civil and structural engineering. ISBN 978-0-08-100982-6.

Univerza na Primorskem
Università del Litorale
University of Primorska

Titov trg 4 • SI-6000 Koper
+386 (0)5 611 75 53
info@upr.si • www.upr.si

KUTNAR, Andreja. Environmental use of wood resources. V: KUTNAR, Andreja (ur.), MUTHU, Subramanian Senthilkannan (ur.). Environmental impacts of traditional and innovative forest-based bioproducts. Singapore: Springer Nature, cop. 2016. Str. 1-18, ilustr. Environmental footprints and eco-design of products and processes. ISBN 978-981-10-0653-1. ISSN 2345-7651. DOI: 10.1007/978-981-10-0655-5_1.