

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Predmet:	Načrtovanje gradnje
Course title:	Design of the buildings

Študijski program in stopnja Study programme and level	Študijska smer Study field	Letnik Academic year	Semester Semester
Pravo in management nepremičnin 3. stopnje	Pravo in management nepremičnin	1.	1.
Law and Management of Real Estate III. level	Law and Management of Real Estate	1.	1.

Vrsta predmeta / Course type Izbirni / Optional

Univerzitetna koda predmeta / University course code:

Predavanja Lectures	Seminar Seminar	Sem. vaje Tutorial	Lab. vaje Laboratory work	Teren. vaje Field work	Samost. delo Individ. work	ECTS
30	0	0	0	0	0	6

Nosilec predmeta / Lecturer: prof. dr. Živa Kristl

Jeziki / Languages:	Predavanja / Lectures:	slovenski / Slovene
	Vaje / Tutorial:	slovenski / Slovene

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

- osnovno poznavanje principov gradnje,
- poznavanje osnovne gradbeniške terminologije,
- sposobnost za samostojen študij literature in izvedenih primerov gradnje.

Prerequisites:

- basic knowledge of the concepts of construction,
- knowledge of the basic building terminology,
- ability to study individually the literature and build case studies

Vsebina:

- opredelitev dejavnikov, ki vplivajo na načrtovanje gradnje in navezava na zakonodajne okvire
- opredelitev kriterijev vrednotenja uspešnosti načrtovanja,
- opredelitev osnovnih postopkov načrtovanja,
- primeri iz prakse

Content (Syllabus outline):

- to identify factors that influence the design of buildings and link to regulation framework
- to identify performance criteria for the evaluation of design,
- to identify basic procedures of design,
- case studies,

Temeljna literatura in viri / Readings:**Obvezna:**

Deplazes, Andrea (Ed.), 2013: Constructing Architecture, Materials, Processes, Structures A Handbook, ISBN: 3-7643-7189-7, A Birkhäuser book, Basel. Izbrana poglavja

Dick van Gameren, Hans Ibelings, 2006: Revisions of Space - An Architectural Manual, ISBN: 9056624210, Nai publishers, Amstredam. Izbrana poglavja

Dieter George E., Engineering Design: A Materials and Processing Approach, McGraw-Hill, - McGraw-Hill mechanical engineering series, 2000. Izbrana poglavja

Roth Leland M., Roth Amanda C. Clark, Understanding Architecture its Elements, History, and Meaning, Westview press, 1993. Izbrana poglavja

Szokolay Steven V., Introduction to Architectural Science, Architectural press 2004. Izbrana poglavja

Priporočena:

Ching Francis D.K., Architecture: Form, Space and Order, New York: Van Nostrand Reinhold, 1979. Izbrana poglavja

Fister Peter, UMETNOST STAVBARSTVA NA SLOVENSKEM, Cankarjeva založba 1986. Izbrana poglavja

Hegger M., Construction materials manual. Basel: Birkhäuser, Munich : Edition Detail, cop. 2006. Izbrana poglavja

Schneider, Friederike, 1994: Grundrißatlas : wohnungsbau = Floor plan atlas : housing, ISBN: 3-7643-2625-5, Birkhäuser, Basel. Izbrana poglavja

Veljavna področna zakonodaja EU in RS

Literatura iz periodičnih publikacij (znanstvene objave), npr:

ACI materials journal. American Concrete Institute. Vol. 84, No. 1 (1987). Detroit (Mich.) : American Concrete Institute, 1987.

Journal of materials in civil engineering: American Society of Civil Engineers. New York, NY : American Society of Civil Engineers, Materials Engineering Division, 1989.

Energy and buildings, An international journal devoted to investigations of energy use and efficiency in buildings, Elsevier, ISSN: 0378-7788

Building and environment, The International Journal of Building Science and its Applications, Elsevier, ISSN: 0360-1323

Cilji in kompetence:**Objectives and competences:**

- sposobnost celostnega vrednotenja gradnje,
- sposobnost prepoznavanja uspešnih primerov iz prakse,
- sposobnost vodenja dialoga s strokovnimi sodelavci,

- ability to holistically evaluate the design,
- ability to recognize the successful examples from praxis,
- ability to conduct a dialogue with professional collaborators,

Predvideni študijski rezultati:

- znanje in razumevanje:
- poznavanje različnih pristopov načrtovanja gradnje,
- poznavanje in prepoznavanje relevantnih dejavnikov, ki vplivajo na proces načrtovanja,
- osnovne tehnike vrednotenja uspešnosti procesa načrtovanja,
- osnovne tehnike projektnega vodenja procesa načrtovanja,

Intended learning outcomes:

- Knowledge and understanding:
- knowledge of different approaches to the design of construction,
- understanding and identifying the relevant factors that influence the design process,
- the basic techniques for evaluating the performance of the planning process,
- the basic techniques of project management and design process,

Metode poučevanja in učenja:

Learning and teaching methods:

Načini ocenjevanja:

Delež (v %) / **Assessment:**
Weight (in %)

Oblike dela:

- Frontalna oblika poučevanja
- Delo v manjših skupinah oz. v dvojicah
- Samostojno delo študentov
- e-učenje
- drugo (vpišite) _____

Metode (načini) dela:

- Razlaga
- Razgovor/ diskusija/debata
- Delo z besedilom
- Proučevanje primera
- Igra vlog
- Druge vrste nastopov študentov
- Reševanje nalog
- Študijski obiski podjetij ipd.)
- Vključevanje gostov iz prakse
- Udeležba na okrogli mizi, na konferenci

Types of learning/teaching:

- Frontal** teaching
- Work in smaller groups or pair work
- Independent students work
- e-learning
- other _____

Teaching methods:

- Explanation
- Conversation/discussion/debate
- Work with texts
- Case studies
- Role-play
- Different presentation
- Solving exercises
- Field work (e.g. company visits)
- Inviting guests from companies
- Attending round table and conference

Seminarska naloga.	100%	seminar work
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Reference nosilca / Lecturer's references:

KRISTL, Živa. Trajnostni vidiki stanovanjske gradnje. 1. natis. Nova Gorica: Nova univerza, Evropska pravna fakulteta, 2019. 263 str. ISBN 978-961-6731-30-0. [COBISS.SI-ID 301510656]

KRISTL, Živa, SENIOR, Coline, TEMELJOTOV SALAJ, Alenka. Ključni izzivi prilagajanja podnebnim spremembam v gradbenem sektorju = Key challenges of climate change adaptation in the building sector. *Urbani izziv*. [Tiskana izd.]. 2020, letn. 31, št. 1, str. 40-50, 101-111, ilustr. ISSN 0353-6483. <https://urbaniizziv.uirs.si/Portals/urbaniizziv/Clanki/2020/urbani-izziv-en-2020-31-01-04.pdf>, <https://urbaniizziv.uirs.si/Portals/urbaniizziv/Clanki/2020/urbani-izziv-2020-31-01-04.pdf>, DOI: 10.5379/urbani-izziv-2020-31-01-00410.5379/urbani-izziv-en-2020-31-01-004. [COBISS.SI-ID 28286467]

KRISTL, Živa, ZBAŠNIK-SENEGACNIK, Martina. Študija pomena dnevne svetlobe v prostorih vrtca in šole. *Sodobna pedagogika*. 2020, letn. 71, št. 3, str. 98-114. ISSN 0038-0474. <https://www.sodobna-pedagogika.net/clanki/03-2020-studija-pomena-dnevne-svetlobe-v-prostorih-vrtca-in-sole/>. [COBISS.SI-ID 35583235]

KRISTL, Živa, TEMELJOTOV SALAJ, Alenka, ROUMBOUTSOS, Athena. Sustainability and universal design aspects in heritage building refurbishment. *Facilities*. 2019, vol. , iss. , str. [1-24], ilustr. ISSN 0263-2772. DOI: [10.1108/F-07-2018-0081](https://doi.org/10.1108/F-07-2018-0081). [COBISS.SI-ID 2048069860]

KOŠIR, Mitja, GOSTIŠA, Tamara, KRISTL, Živa. Influence of architectural building envelope characteristics on energy performance in Central European climatic conditions. *Journal of building engineering*, ISSN 2352-7102, jan. 2018, letn. 15, str. 278-288, ilustr. https://ac.els-cdn.com/S2352710217304941/1-s2.0-S2352710217304941-main.pdf?tid=f3f8f724-df1f-11e7-8bc0-00000aab0f6c&acdnat=1513071579_3bff529e341779ec28b9f1bafbacf7bc, doi: [10.1016/j.jobe.2017.11.023](https://doi.org/10.1016/j.jobe.2017.11.023). [COBISS.SI-ID 8237409]

BLECICH, Paolo, FRANKOVIĆ, Marko, KRISTL, Živa. Energy retrofit of the Krsan Castle : from sustainable to responsible design : a case study. *Energy and buildings*, ISSN 0378-7788. [Print ed.], 15. Jun. 2016, vol. 122, str. 23-33, graf. prikazi. <http://www.sciencedirect.com/science/article/pii/S0378778816302456>. [COBISS.SI-ID 1024717681]

KRISTL, Živa. Implementation of innovative energy retrofitting measures in heritage buildings - a review. V: FRANKOVIĆ, Bernard (ur.). *Energija i okoliš 2016 : prilagodba klimatskim promjenama i energijska sigurnost na JI Europe - čista energija za bolji svijet = Energy and the environment 2016*, Međunarodni kongres Energija i okoliš, Opatija, Croatia, October 26-28, 2016. Rijeka: Hrvatski savez za sunčevu energiju. 2016, str. 349-358, ilustr. [COBISS.SI-ID 7739489]

KOŠIR, Mitja, CAPELUTO, Isaac Guedi, KRAINER, Aleš, KRISTL, Živa. Solar potential in existing urban layouts : critical overview of the existing building stock in Slovenian context. *Energy policy*, ISSN 0301-4215. [Print ed.], jun. 2014, letn. 69, št. X, str. 443-456, ilustr., doi: [10.1016/j.enpol.2014.01.045](https://doi.org/10.1016/j.enpol.2014.01.045). [COBISS.SI-ID 6496609]

KRISTL, Živa. *Priporočila za načrtovanje dnevne osvetljenosti*. [Postojna: Velux, 2019]. 1 spletni vir (1 datoteka PDF ([25] str.)),

ilustr. <https://velcdn.azureedge.net/~/media/marketing/si/datoteke/priporocila.pdf>. [COBISS.SI-
ID [2048060132](#)]