

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Predmet: Prometna infrastruktura
Course title: Transport Infrastructure

Študijski program in stopnja Study programme and level	Študijska smer Study field	Letnik Academic year	Semester Semester
Pravo in management infrastrukture in nepremičnin - 1. stopnja		2	2
Law and Management of Infrastructure and Real Estate – 1st degree		2	2

Vrsta predmeta / Course type

Obvezni / Obligatory

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	25	0	0	70	5

Nosilec predmeta / Lecturer: viš. pred. Tjaša Doberlet / Sen. Lect. Tjaša Doberlet

Jeziki / Languages:
Predavanja / Lectures: Slovenski jezik/Slovenian
Vaje / Tutorial: Slovenski jezik/Slovenian

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

Vpis v 2. letnik dodiplomskega študija.

Vsaj 80% prisotnost na predavanjih in vajah.

Prerequisites:

Enrollment in the 2nd year of undergraduate study.

At least 80% attendance at lectures and tutorials.

Vsebina:

Splošna seznanitev s pojmom prometne infrastrukture.
Razumevanje pomembnosti prometne infrastrukture za družbo.
Razvoj prometne infrastrukture skozi zgodovino.

Content (Syllabus outline):

General understanding of transport infrastructure, project designing and constructing.
Structure of transport infrastructure:
– Road infrastructure

Struktura prometne infrastrukture:

- Cestna infrastruktura
- Železniška infrastruktura
- Letališka in zračna infrastruktura
- Pomorska infrastruktura
- Načrtovanj prometne infrastrukture
- Prometna varnost
- Trajnostna infrastruktura
- Tehnologija razvoja infrastrukture
- Financiranje in upravljanje
- Pogled v prihodnost razvoja prometne infrastrukture

- Railway infrastructure
- Airport and air infrastructure
- Maritime infrastructure
- Transport infrastructure planning
- Traffic safety
- Sustainable infrastructure
- Infrastructure development technology
- Financing and management
- A look into the future of transport infrastructure development

Temeljna literatura in viri / Study Literature:

1. GRUEV, Marta, JUVANC, Alojzij. Sodobno načrtovanje cestne infrastrukture. V: Urbani izziv. - ISSN 0353-6483. - Let. 14, št. 1 (2003), str. 60-Zgonc Bogdan, Železniški promet, UL FPP, Portorož, 2003 ISBN 961-6044-57-5
2. ESVELD, Coenrad: Modern Railway Track, Second Edition, TU Delft, 2001, ISBN 90-800324-3-3
3. ZGONC, Bogdan. Slovenske železnice v luči razvoja evropskega prometnega sistema = Slovene railways in the aspect of European-traffic-system development. V: Gradbeni vestnik. - ISSN 0017-2774. - Let. 46, št. 9-10 (september, oktober 1997), str. 267-277.
4. Transport in the European Union, Current trends and Issues, European Commision, March 2019
5. Trajnostna mobilnost v praksi, Inštitut za politike prostora, Ljubljana, 2016, ISBN 978-961

Priporočena literatura

1. Prof.dr. B. Zgonc, dr. P. Verlič, Tehnične specifikacije za interoperabilnost – podsistem Infrastruktura, Prometni institut Ljubljana, 2018 ISBN 978-961-288-117-1
2. Celostna prometna strategija Ljubljanske urbane regije, RRA LUR, Ljubljana, 2018, ISBN 978-961-92857-8-7
3. Javni promet v Ljubljanski urbani regiji, RRA LUR Ljbljana, 2010, ISBN 978-961-92857-0-1
4. EU Transport in figures, European Commision, 2019, ISBN 978-92-76-03843-6
5. A. Rakar, M. Šubic Kovač, Pomen in vloga urejanja prostora pri gradnji objektov, Gradbena fakulteta Ljubljana, 2007.
6. Gradnja Slovenskih avtocest 1994-2009, DRC, 2010.
7. Nacionalni program izgradnje avtocest , 1995.
8. Nacionalni program razvoja slovenske železniške infrastrukture, 1996.
9. Operativni program razvoja okoljske in prometne infrastrukture za obdobje 2007–2013, ISBN 978-961-91352-8 -0.
10. Zakonodaja RS: Zakon o celostnem prometnem načrtovanju (Ur.l.RS, št.130/2022).

Cilji in kompetence:

Objectives and competences:

- poznavanje projektnega pristopa za doseganje ciljev;
- sposobnost razumevanja procesov priprave, orodij in metod za uspešno izvedbo projekta;
- sposobnost analiziranja, sintetiziranja pridobljenih znanj, predvidevanja rešitev in njihovih posledic;
- sposobnost fleksibilnega prenosa znanj v prakso;
- sposobnost doseganja strateških in operativnih ciljev;
- komuniciranje s strokovnjaki z različnimi interesnimi skupinami.

- knowledge of project approach for achieving the goals
- capability of understanding tools and methods for the successful performance
- capability of analysing, synthesizing, predicting the solutions and their consequences,
- capability of knowledge transfer into practise
- capability of achieving strategic and operational results
- communication with different stakeholders groups

Predvideni študijski rezultati:

Znanje in razumevanje:

- kategorij prometne infrastrukture
- pomena prometne infrastrukture za izvajanje prometnih storitev
- značilnosti prometne infrastrukture po posameznih prometnih panogah
- infrastrukturnih objektov potniškega prometa
- infrastrukturnih objektov tovornega prometa

Intended learning outcomes:

Knowledge and understanding:

- categories of transport infrastructures
- meaning of the transport infrastructure for transport service performance
- characteristics of transport
- infrastructure according to specific transport branches
- infrastructure objects of passenger traffic
- infrastructure objects of freight traffic

Metode poučevanja in učenja:

Oblike dela:

- ☒ Frontalna oblika poučevanja
- ☒ Delo v manjših skupinah oz. v dvojicah
- ☒ Samostojno delo študentov
- ☒ e-učenje
- ☒ Kombiniran način študija
- ☐ 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.)

Learning and teaching methods:

Types of learning/teaching:

- ☒ **Frontal** teaching
- ☒ Work in smaller groups or pair work
- ☒ Independent students work
- ☒ e-learning
- ☒ Combined study mode
- ☐ other _____

Teaching methods:

- ☒ Explanation
- ☒ Conversation/discussion/debate
- ☒ Work with texts
- ☒ Case studies
- ☒ Role-play
- ☒ Different presentation
- ☒ Solving exercises
- ☒ Field work (e.g. company visits)

☒ Vključevanje gostov iz prakse ☒ Udeležba na okrogli mizi, na konferenci	☒ Inviting guests from companies ☒ Attending round table and conference
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Delež (v %) / Weight (in %)		Assessment:
Načini ocenjevanja:		
- Način preverjanja znanja Znanje se preverja z izdelavo seminarske naloge v pisni obliki in njeno javno predstavitev ter zagovorom na vajah. - Opis in struktura seminarske naloge Seminarska naloga obsega pet nalog. Vsaka naloga je ocenjena z največ 2 točkama: • 1 točka za pisni del in • 1 točka za ustni zagovor. Skupno število možnih točk je 10. - Ocenjevanje • 6-10 točk: pozitivna ocena, • 1-5 točk: negativna ocena.	100%	- Method of Assessment Knowledge is assessed through the preparation of a written seminar paper, followed by its public presentation and oral defence during tutorials. - Description and Structure of the Seminar Paper The seminar paper consists of five tasks. Each task is evaluated with a maximum of 2 points: 1 point for the written part and 1 point for the oral defence. The total number of points available is 10. - Grading • 6-10 points: passing grade, • 1-5 points: failing grade.

Reference nosilca / Lecturer's references:

Tjaša Doberlet je višja predavateljica na Evropski pravni fakulteti Nove univerze. Diplomirala je na konstrukcijski smeri Fakultete za gradbeništvo in geodezijo Univerze v Ljubljani. Je pooblaščen inženirka s področja gradbeništva z dolgoletnimi izkušnjami na področju projektiranja gradbenih konstrukcij, grajenih iz različnih materialov. Na Visoki šoli za gradbeno inženirstvo v Kranju, pridruženi članici Nove univerze, opravlja funkcijo prodekanje kot predstojnica katedre splošnih ved, hkrati pa deluje tudi kot nosilka več predmetov in mentorica diplomskih del. V svojem raziskovalnem delu se osredotoča na ozaveščenost in odnos javnosti do protipotresne prenove v Sloveniji, kar je tudi osrednja tema njenega doktorskega študija, ki ga zaključuje na podiplomskem programu Pravo in management nepremičnin.

Tjaša Doberlet is a senior lecturer at the European Faculty of Law of the New University. She graduated from the Faculty of Civil Engineering and Geodesy of the University of Ljubljana in the field of construction. She is a certified civil engineer with many years of experience in the field of designing building structures made of various materials. At the College of Civil Engineering in Kranj, an associated member of the New University, she serves as Vice-Dean as Head of the Department of General Sciences, and also works as a lecturer for several courses and a mentor for diploma theses. In her research, she focuses on public awareness and attitudes towards earthquake-resistant renovation in Slovenia, which is also the central topic of her doctoral studies, which she is completing in the postgraduate program Real Estate Law and Management.

