

UČNI NAČRT PREDMETA / COURSE SYLLABUS	
Predmet:	TRAJNOSTNI RAZVOJ, POTROŠNJA IN MOBILNOST
Course title:	SUSTAINABLE DEVELOPMENT, CONSUMPTION AND MOBILITY

Študijski program in stopnja Study programme and level	Študijska smer Study field	Letnik Academic year	Semester Semester
Obštudijska dejavnost			zimski
Extracurricular activities			winter

Vrsta predmeta / Course type: Obštudijska dejavnost/Extracurricular activities

Univerzitetna koda predmeta / University course code:

Predavanja Lectures	Seminar Seminar	Vaje Tutorial			Klinične vaje Laboratory work	Druge oblike študija Field work	Samost. delo Individ. work	ECTS
20	10	AV	LV	RV			60	3

Nosilec predmeta / Lecturer: MATEVŽ OBRECHT

Jeziki / S/A Languages: S/E
 Predavanja / Lectures: Slovenski/Slovene
 Vaje / Tutorial: Slovenski/Slovene

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

Prerequisites: None

Vsebina	Content (Syllabus outline):
<p>Temeljna področja obravnave predmeta so:</p> <ul style="list-style-type: none"> -Koncept trajnostnega razvoja -Cilji združenih narodov s področja trajnostnega razvoja -Okoljski vplivi -Izzivi merjenja trajnostnosti -Celovita presoja okoljskih vplivov (ogljčni odtis, okoljski odtis,...) -Presoja družbenih vplivov -Identifikacija in presoja trajnostnih in netrajnostnih produktov -Integracija krožnih tokov in postopkov ponovne uporabe kot alternativa masovni potrošnji -Koncept »de-growth« kot nova alternativa obstoječim gospodarskim modelom -Načela trajnostnega življenja -Deljena ekonomija -Trajnostna mobilnost -Nove poslovne priložnosti na področju trajnostne potrošnje in trajnostne mobilnosti v EU 	<p>Basic areas of subject focus are:</p> <ul style="list-style-type: none"> - Sustainable development and UN Sustainable Development Goals - Environmental impacts - Challenges of measuring sustainability -Environmental impact assessment (carbon footprint, environmental footprint...) -Assessing social impacts -Identification and assessment of unsustainable and sustainable products and services -Integrating circular flows and concepts of reuse as an alternative to mass consumption -De-growth concept as alternative to prevailing economic models -Principles of sustainable living -Sharing economy -Sustainable mobility - New business opportunities in sustainable consumption in the EU

Temeljniliteratura in viri / Readings:

Osnovna literatura / Essential sources:

Izbrana poglavja iz/Some Chapters from:

-Obrecht, M. (2020). Trajnostna logistika in alternativni viri energije v logističnih procesih : razvoj trajnostne energetike in trajnostnih energetskih modelov : visokošolski učbenik. Celje: Fakulteta za logistiko Univerze v Mariboru.

-OBRECHT, Matevž. Integrating life cycle thinking, ecolabels and ecodesign principles into supply chain management. V: KOLINSKI, Adam (ur.), DUJAK, Davor (ur.), GOLINSKA-DAWSON, Paulina (ur.). Integration of information flow for greening supply chain management, (Ecoproduction (Berlin. Internet), ISSN 2193-4622). Cham: Springer. cop. 2020, str. 219-249, ilustr. <https://doi.org/10.1007/978-3-030-24355-5>

Članki/papers:

-DENAC, Matjaž, OBRECHT, Matevž, RADONJIČ, Gregor. 2018. Current and potential ecodesign integration in small and medium enterprises : construction and related industries. Business strategy and the environment

-OBRECHT, Matevž, KNEZ, Matjaž. Carbon and resource savings of different cargo container designs. Journal of cleaner production, ISSN 1879-1786. [Online ed.], 1 Jul. 2017, vol. 155, 151-156 str. doi: 10.1016/j.jclepro.2016.11.076.

Dodatna literatura / Additional sources:

-JEREB, Borut, KNEZ, Matjaž, KUKOVIČ, Darja, CVAHTE OJSTERŠEK, Tina, OBRECHT, Matevž. Green product. V: JEREB, Borut (ur.), et al. Environmental management & audit : Tempus project Recoaud. 1, Scarcity & introduction to environmental management. 1st electronic ed. Czestochowa [etc.]: SPH - Scientific Publishing Hub. 2016, str. 43-50, ilustr. http://sphub.org/wp-content/uploads/2016/12/1_Scarcity_and_Introduction_to_Environmental_Management.pdf, <https://dk.um.si/lzpis/Gradiva.php?id=70410>.

- Amaral Junior, A., Almeida, L., Klein Vieira, L. (Eds.). Sustainable consumption: The right to a healthy environment. Springer International Publishing. 2020.

-Friedman, T.L. Hot, flat and crowded. Picador. 2009.

(SLO izdaja: Friedman, T.L. Vroč, raven in nagneten svet. Učila international. 2009)

Cilji in kompetence:

Študenti pri tem predmetu:

- Spoznajo koncept in cilje trajnostnega razvoja
- Oblikujejo pozitivna stališča do koncepta trajnostnega razvoja
- Spoznajo in osvojijo različne pristope za identifikacijo, analizo in presojo okoljskih vplivov (npr. ogljični odtis, okoljski odtis) v praksi na področju mobilnosti
- Se usposobijo uporabljati teoretično znanje s področja trajnostnega razvoja v praksi (mobilnost in potrošnja)
- Spoznajo vpliv in navezanost okoljskih in družbenih vplivov na različne ekonomske pod sisteme
- Se usposobijo za identifikacijo trajnostnih načinov življenja in deljene ekonomije v vsakodnevno življenje
- So sposobni kritično presoditi ali je izdelek bolj ali manj trajosten.
- Spoznajo komuniciranje z javnostjo o trajnosti in de-growth strategijah.
- Se usposobijo za razvoj trajnostnih strategij, procesov in ukrepov.

Objectives and competences:

In this course students:

- Get to know sustainable development concept and goals
- Shape positive attitude toward sustainable development
- Get to know different simplified approaches for environmental impact assessment (e.g. carbon footprint, environmental footprint)
- Gain the ability to apply their theoretical knowledge on sustainable development in practice (mobility and consumption).
- Get to know interconnections between environmental, social and economic issues.
- Gain knowledge on integrating sustainable principles and sharing economy in everyday life.
- Are able to assess if product is more or less sustainable.
- Get to know how to communicate with the public and on sustainability and de-growth issues
- Develop ability to design sustainable strategies, processes and practices.

Predvideni študijski rezultati:

Intended learning outcomes:

<p>Znanje in razumevanje</p> <p>Študenti:</p> <ul style="list-style-type: none"> ▪ Obvladajo specifično znanje s področja Trajnostnega razvoja in trajnostne potrošnje. ▪ Se naučijo prepoznavati trajnostne rešitve za vsakodnevno življenje. ▪ Pridobijo znanje na področju presoje in analize Okoljskih in družbenih vplivov. ▪ Razvijejo sposobnost interpretacije dobljene rešitve. ▪ Naučijo se prepoznavati poslovne priložnosti na področju trajnostne potrošnje. Se usposobijo za nadaljnje proučevanje na področju trajnostnega razvoja in trajnostne potrošnje. ▪ Se zavedajo trajnostnih načel na področju Potrošnje in vsakodnevnega življenja. 	<p>Development of knowledge and understanding</p> <p>Students:</p> <ol style="list-style-type: none"> 1. Acquire specific knowledge in the field of Sustainable development and sustainable consumption. 2. Learn how to identify sustainable solutions in everyday life 3. Gain knowledge of environmental and social impact assessment 4. Develop the skills to interpret the gained results. 5. Learn how to identify business opportunities in the field of sustainable consumption. 6. Are able to pursue further study on process and the field of sustainable development and sustainable consumption. 7. Are aware of sustainability principles in consumption and everyday life <p>Cognitive/Intellectual skills</p> <p>Students:</p> <ol style="list-style-type: none"> 1. Understand and apply critical analysis of sustainable consumption, within the framework of sustainable development paradigm. 2. Get the ability to search for and synthesize new information from the field of environmental and social impact assessment. 3. Learn how to synthesize different knowledge and are aware of importance of use of professional And scientific literature on sustainable development and sustainable consumption. 4. Can identify key aspects of sustainability issue from different perspectives and identify potential improvements and solutions.
<p>Kognitivne/Intelektualne veščine</p> <p>Študenti:</p> <ol style="list-style-type: none"> 1. Pridobijo razumevanje za kritično analizo načel trajnostne potrošnje ob upoštevanju osnovnih usmeritev trajnostnosti. 2. Pridobijo sposobnost iskanja in sinteze novih informacij s področja presoje okoljskih in družbenih vplivov 3. Se naučijo povezovanja različnih znanj in postopkov ter pomena uporabe strokovne in znanstvene literature o trajnostnem razvoju in trajnostni potrošnji. 4. Znajo identificirati problem trajnostnosti iz različnih zornih kotov ter podati izboljšave oz. rešitve zanj. 	<p>Key/Transferable skills</p> <p>Students:</p> <ol style="list-style-type: none"> 1. Further develop skills and expertise in the use of knowledge in a specific working area and everyday life. 2. Upgrade the ability to become an autonomous learner. 3. Upgrade the ability to apply information technology for sustainability assessment and sustainable consumption. 4. Upgrade the ability to work in groups. 5. Further develop their communication skills in an effective manner to effectively and professionally communicate sustainability issues.
<p>Ključne/prenosljive veščine in spretnosti</p> <p>Študenti:</p> <ol style="list-style-type: none"> 1. Dalje razvijajo veščine in spretnosti v uporabi znanja na svojem konkretnem strokovnem delovnem področju ter vsakodnevem življenju 2. Nadgrajujejo sposobnost samostojnega učenja. 3. Nadgrajujejo sposobnost uporabe informacijske tehnologije za trajnostno potrošnjo in presojo. 4. Nadgrajujejo sposobnost in spretnost dela v skupini. 5. Razvijajo komunikacijske sposobnosti za učinkovito strokovno komuniciranje s področja trajnostnosti. 	<p>Key/Transferable skills</p> <p>Students:</p> <ol style="list-style-type: none"> 1. Further develop skills and expertise in the use of knowledge in a specific working area. 2. Upgrade the ability to become an autonomous learner. 3. Upgrade the ability to apply information technology. 4. Upgrade the ability to work in pairs and groups. 5. Further develop their communications skills in an effective manner to effectively and professionally communicate. <p>Practical skills</p> <p>Students:</p> <ol style="list-style-type: none"> 1. Get practical experience in the field of sustainable consumption and concept of sustainability. 2. Are able to act autonomously with defined

<p>Praktične veščine: Študenti:</p> <ol style="list-style-type: none"> 1. Pridobi praktične izkušnje na področju trajnostne Potrošnje in koncepta trajnosti 2. Lahko deluje dokaj samostojno, ob podanih navodilih in delnem nadzoru. 	<p>guidelines and certain level of supervision.</p>
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Metode poučevanja in učenja:

Predmet vključuje različne metode poučevanja in učenja, kot so: predavanja, seminar, diskusijske skupine, video predstavitve in filmi, študije primerov iz prakse, praktično delo ter skupinske predstavitve in samostojni študij študentov.

Predavanja: pri predavanjih študent spozna teoretične vsebine predmeta in primere dobre prakse iz področja trajnostnega razvoja in trajnostne potrošnje. Del predavanj se izvaja na klasični način v predavalnici, del pa v obliki e-predavanj (e-predavanja se lahko izvajajo na videokonferenčni način ali s pomočjo posebej v ta namen didaktično pripravljenih e-gradiv v virtualnem elektronskem učnem okolju).

Vaje: pri vajah študent utrdi teoretično znanje in spozna aplikativne možnosti kot npr. Izračun okoljskega in ogljičnega odtisa za domače gospodinjstvo. Del vaj se izvaja na klasični način v predavalnici, del pa v obliki e-predavanj (e-vaje se lahko izvajajo na videokonferenčni način ali s pomočjo posebej v ta namen didaktično pripravljenih e-gradiv v virtualnem elektronskem učnem okolju).

Learning and teaching methods:

This course uses a range of teaching methods including lectures, discussion groups, videos and films, case studies, practical work, student presentations and independent study of students.

Lectures: students understand the theoretical frameworks of the course and best practices of sustainable development and sustainable consumption. Part of the lecture course is in a classroom while the rest is in the form of e-learning (e-lectures may be given via video-conferencing or with the help of specially designed e-material in a virtual electronic learning environment).

Tutorials: Students enhance their theoretical knowledge and are able to apply it – e.g. calculating environmental and carbon footprint for student’s household. Part of the seminar is in a classroom while the rest is in the form of e-learning (e-seminars may be given via video-conferencing or with the help of specially designed e-material in a virtual electronic learning environment).

Načini ocenjevanja:	Delež (v %) / Weight (in %)	Assessment:
<ul style="list-style-type: none"> ▪ Aktivno sodelovanje in delo študentov ▪ Seminarska/projektna naloga 	<ul style="list-style-type: none"> ▪ 40 % ▪ 60 % 	<ul style="list-style-type: none"> ▪ Active participation of students ▪ Seminar/project paper

Reference nosilca / Lecturer's references:

-OBRECHT, Matevž, KAZANCOGLU, Yigit, DENAC, Matjaž. Integrating social dimensions into future sustainable energy supply networks. International journal of environmental research and public health, ISSN 1660-4601, 2020, vol. 17, str. 1-18, ilustr. <https://doi.org/10.3390/ijerph17176230>, doi: 10.3390/ijerph17176230.

-KNEZ, Matjaž, JEREB, Borut, JADRAQUE GAGO, Eulalia, ROSAK-SZYROCKA, Joanna, OBRECHT, Matevž. Features influencing policy recommendations for the promotion of zero emission vehicles in Slovenia, Spain, and Poland. Clean technologies and environmental policy, ISSN 1618-9558. [Online ed.]. <https://doi.org/10.1007/s10098-020-01909-9>, doi: 10.1007/s10098-020-01909-9.

-DENAC, Matjaž, OBRECHT, Matevž, RADONJIČ, Gregor. 2018. Current and potential ecodesign integration in small and medium enterprises : construction and related industries. Business strategy and the environment

OBRECHT, Matevž, KNEZ, Matjaž. Carbon and resource savings of different cargo container designs. Journal of cleaner production, ISSN 1879-1786. [Online ed.], 1 Jul. 2017, vol. 155, 151-156 str. doi: 10.1016/j.jclepro.2016.11.076.

-OBRECHT, Matevž. Integrating life cycle thinking, ecolabels and ecodesign principles into supply chain management. V: KOLINSKI, Adam (ur.), DUJAK, Davor (ur.), GOLINSKA-DAWSON, Paulina (ur.). Integration of information flow for greening supply chain management, (Ecoproduction (Berlin. Internet), ISSN 2193-4622). Cham: Springer. cop. 2020, str. 219-249, ilustr. <https://doi.org/10.1007/978-3-030-24355-5>