DOBRODOŠLI

WELCOME

Assoc. prof. Marjan Sternad, PhD

Vice-Dean of the Faculty of Logistics

Rules and Requirements for the 1st Semester

The first semester will be conducted **ENTIRELY ONLINE** through **MS TEAMS** and the **E-CLASSROOM PLATFORM**.

Lectures & tutorials are **OBLIGATORY**

e-Obligations & Seminar Work:

Must be completed before exam registration.

Being late is considered rude in our culture.



Some general info

Asist. prof. Simona Šinko

Digital identity

Digital identity

firstname.lastname@student.um.si

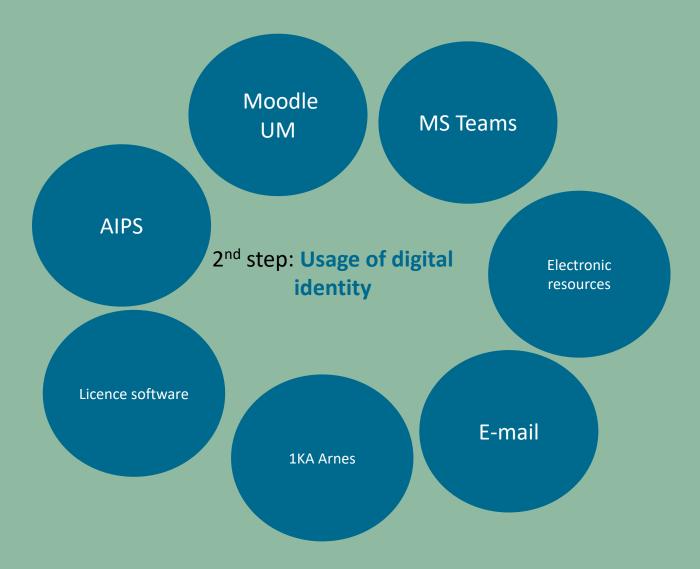
1st step: acquisition of digital identity

You received the notification by email

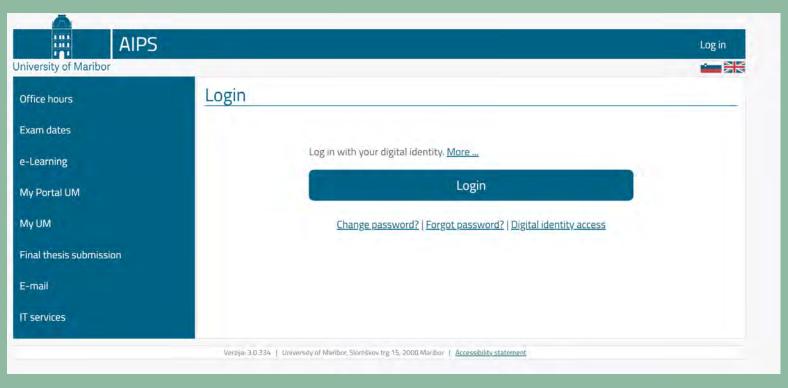


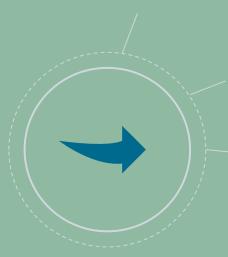
You need to change the password!

Digital identity



AIPS

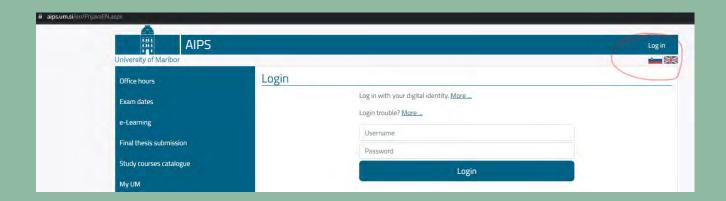


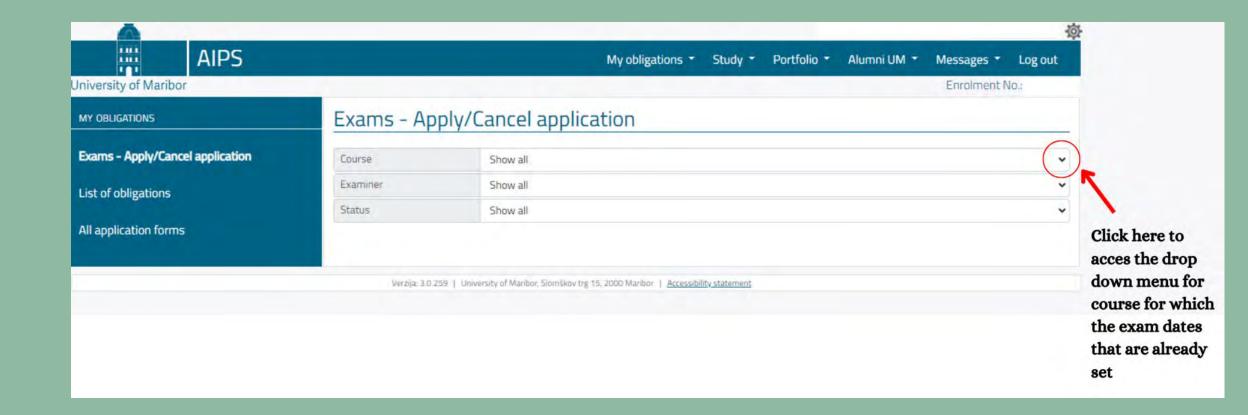


- Monitoring of study progress (e-gradebook)
- ✓ Exam registration
- ✓ Exam deregistration
- ✓ Electronic enrollment into the next academic year
- Completion of the student survey

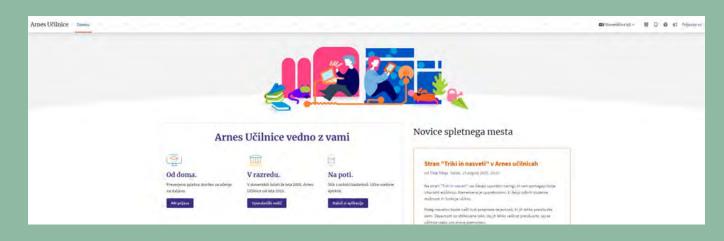
AIPS

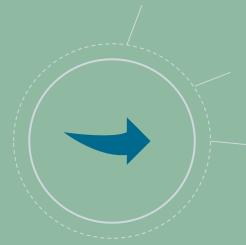
- https://aips.um.si/en/PrijavaEN.aspx
- You can check exam dates here
- Apply at least 7 days before exam
- Cancel the application no later than 2 days before the exam





MOODLE UM



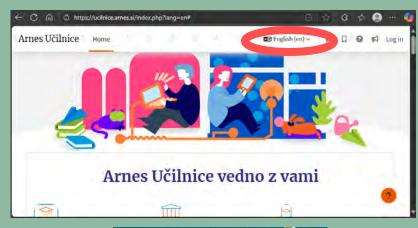


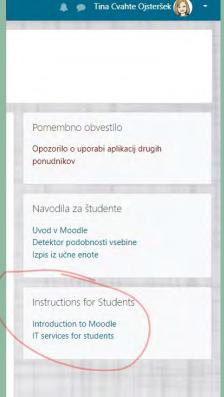
- ✓ Participation in the study process
- ✓ Fulfilling e-obligations

Quick overview of online classrooms

Online classroom – UM eŠtudij

- https://ucilnice.arnes.si/index.php?lang=en
- Can be switched to English



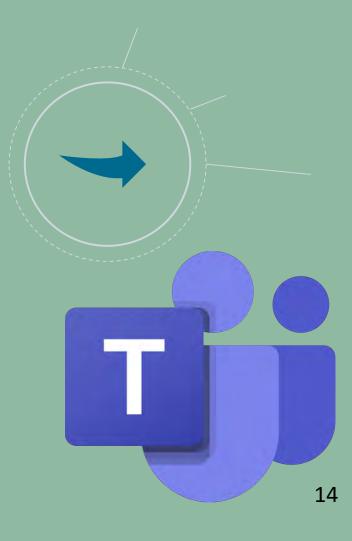


Accessed with your @student.um.si identity.

- All assignments, e-lectures, e-tutorials etc. are given here, as well as materials
- All assignments have to be submitted via the online classroom!
- Can also be used for communication e.g. forums.
- It also contains a plagiarism checker.

MSTEAMS

- ✓ Monitoring of distance learning (first semester)
- ✓ Collaboration among classmates



E-mail

- Monitoring of notifications from UM, FL UM, and individual professors and assistants
- ✓ Communication with faculty staff



Communication

 When communication with pedagogical or support staff, please keep in mind that you should follow basic communication etiquette.

- Especially in written communication (email, MS Teams):
 - Present yourself with your full name,
 - Write which study program you're taking and which year,
 - Write which class you're talking about
 - Send the email from your @student.um.si mail address.

STUDY ON FL UM

ECTS points for course

Student workload for the course

1 ECTS = 30 hours of study

Live auditorium obligations

obligations

- ✓ Mandatory attendance at tutorials and lectures
- ✓ Active student participation
- ✓ According to the schedule

- ✓ Independent completion of required tasks in Moodle
- ✓ Independent scheduling of obligations, submission by the specified deadline

Independent study

✓ Independent study of prescribed literature and exam preparation

IMPORTANT INFORMATION

STUDY PROGRAMMES

STUDENT AFFAIRS OFFICE

STUDENT LIFE AT THE UNIVERSITY OF MARIBOR

WRITTEN ASSIGNMENTS
AND FINAL THESIS
GUIDELINES

FL UM WEB PAGE

All important information regarding studies, obligations, and events at the faculty!

Important information

Advancement criteria of a study programme

Rules & Regulations

Funding of Study

Video: Orientation Day 2023

Presentation: Orientation Day & Module Selection (2024)

TIMETABLE

www.fl.um.si

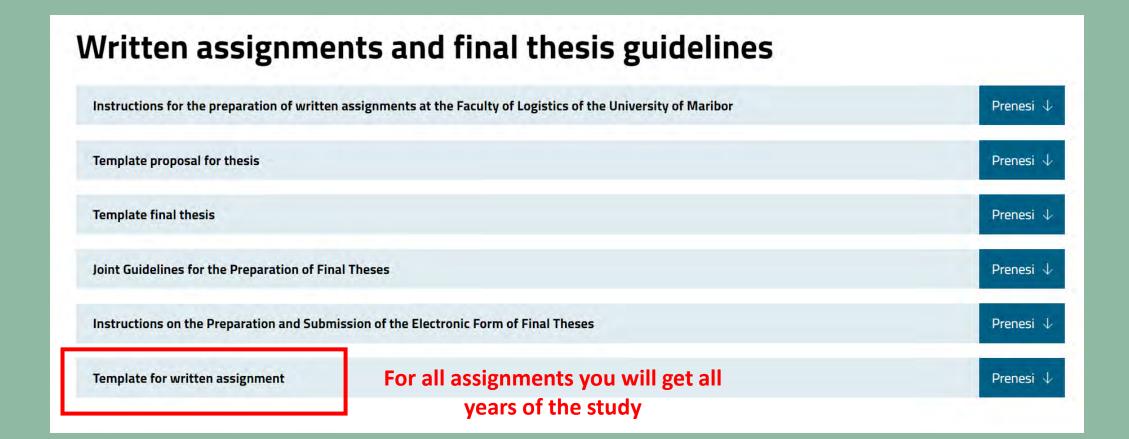
AIPS E-study	Timetable	Library	Contacts
Date/week	Program/Y	ear/Area	
26.09.2024			
52			
	Standard fla	t	

Regularly check the schedule online and your email, as notifications about changes will also be sent via email.

Written assignments

Instruction for written papers

Written assignments and final thesis guidelines | Fakulteta za logistiko (um.si)



Respecting the ownership and authorship of others when preparing assignments

It is not sufficient to cite the source only at the end of a paragraph if we have composed the paragraph by paraphrasing multiple works. Sometimes, sources are needed after every sentence or even after every word.

There can never be too many citations from a source—unless we haven't paraphrased or quoted the source!

"UWB RTLSs have been tested in different environments. In all environments, they turned out to be reliable and accurate. The experimental real work environments during processes were medical [34], sports [35,44], dairy house [36] and industry [13]. Some RTLSs have been tested in work environments, but with no processes. Those environments were barn [43], space simulating construction conditions [37], office [38], industrial warehouse [39] and garage [22]. Most of the analyzed tests were done in different types of empty rooms [8,32,40–42]. One test was carried out outside—on the roof of the institute, although RTLSs are primarily designed for indoor use [45] and one was done only with the computer simulation of the system [46]."

At the end of the work ... REFERENCES LIST

References

- Cwikla, G.; Grabowik, C.; Kalinowski, K.; Paprocka, I.; Banas, W. The initial considerations and tests on the use of real time locating system in manufacturing processes improvement. IOP Conf. Ser. Mater. Sci. Eng. 2018, 400, 042013. [CrossRef]
- Kim, H.; Han, S. Accuracy Improvement of Real-Time Location Tracking for Construction Workers. Sustainability 2018, 10, 1488.
 ICrossRefl
- Dardari, D.; Closas, P.; Djuric, P.M. Indoor Tracking: Theory, Methods, and Technologies. IEEE Trans. Veh. Technol. 2015, 64, 1263–1278. [CrossRef]
- ISO/IEC 24730-1:2006; Information Technology—Real-Time Locating Systems (RTLS)—Part 1: Application Program Interface (API). ISO: Geneva, Switzerland, 2006. Available online: https://www.iso.org/standard/38840.html (accessed on 15 May 2022).
- Wu, H.; Marshall, A.; Yu, W. Path Planning and Following Algorithms in an Indoor Navigation Model for Visually Impaired. In Proceedings of the Second International Conference on Internet Monitoring and Protection (ICIMP 2007), San Jose, CA, USA, 1–5 July 2007; p. 38. [CrossRef]
- Boulos, M.N.K.; Berry, G. Real-time locating systems (RTLS) in healthcare: A condensed primer. Int. J. Health Geogr. 2012, 11, 25.
 [CrossRef] [PubMed]
- Alarifi, A.; Al-Salman, A.M.; Alsaleh, A.; Alnafessah, A.; Al-Hadhrami, S.; Al-Ammar, M.; Al-Khalifa, H. Ultra Wideband Indoor Positioning Technologies: Analysis and Recent Advances. Sensors 2016, 16, 707. [CrossRef] [PubMed]

- Jachimczyk, B. Real-Time Locating Systems for Indoor Applications the Methodological Customization Approach; Blekinge Tekniska Högskol: Karlskrona, Sweden, 2019.
- Hammerin, K.; Streitenberger, R. RTLS—The Missing Link to Optimizing Logistics Management? Jönköping University, School of Engineering: Jönköping, Sweden, 2019.
- Rácz-Szabó, A.; Ruppert, T.; Bántay, L.; Löcklin, A.; Jakab, L.; Abonyi, J. Real-Time Locating System in Production Management. Sensors 2020, 20, 6766. [CrossRef]
- 11. Tran, T.A.; Ruppert, T.; Abonyi, J. Indoor Positioning Systems Can Revolutionise Digital Lean. Appl. Sci. 2021, 11, 5291. [CrossRef]
- Zafarzadeh, M.; Hauge, J.B.; Wiktorsson, M. Real-time data gathering in production logistics: A research review on applications and technologies affecting environmental and social sustainability. In Proceedings of the 6th International EurOMA Sustainable Operations and Supply Chains Forum, Gothenburg, Sweden, 18–19 March 2019.
- Barbieri, L.; Brambilla, M.; Trabattoni, A.; Mervic, S.; Nicoli, M. UWB Localization in a Smart Factory: Augmentation Methods and Experimental Assessment. IEEE Trans. Instrum. Meas. 2021, 70, 1–18. [CrossRef]
- Caso, G.; Le, M.; De Nardis, L.; Di Benedetto, M.G. Performance Comparison of WiFi and UWB Fingerprinting Indoor Positioning Systems. Technologies 2018, 6, 14. [CrossRef]
- Botler, L.; Spork, M.; Diwold, K.; Romer, K. Direction Finding with UWB and BLE: A Comparative Study. In Proceedings of the 2020 IEEE 17th International Conference on Mobile Ad Hoc and Sensor Systems (MASS), Delhi, India, 10–13 December 2020; pp. 44–52. [CrossRef]
- Otim, T.; Díez, L.E.; Bahillo, A.; Lopez-Iturri, P.; Falcone, F. Effects of the Body Wearable Sensor Position on the UWB Localization Accuracy. Electronics 2019, 8, 1351. [CrossRef]
- Frankó, A.; Vida, G.; Varga, P. Reliable Identification Schemes for Asset and Production Tracking in Industry 4.0. Sensors 2020, 20, 3709. [CrossRef] [PubMed]
- Gharat, V.; Colin, E.; Baudoin, G.; Richard, D. Indoor performance analysis of LF-RFID based positioning system: Comparison
 with UHF-RFID and UWB. In Proceedings of the International Conference on Indoor Positioning and Indoor Navigation (IPIN),
 Sapporo, Japan, 18–21 September 2017; pp. 1–8. [CrossRef]
- Adler, S.; Schmitt, S.; Wolter, K.; Kyas, M. A survey of experimental evaluation in indoor localization research. In Proceedings of the International Conference on Indoor Positioning and Indoor Navigation (IPIN), Banff, AB, Canada, 13–16 October 2015; pp. 1–10. [CrossRef]
- Deak, G.; Curran, K.; Condell, J. A survey of active and passive indoor localisation systems. Comput. Commun. 2012, 35, 1939–1954.
- Mazhar, F.; Khan, M.G.; Sällberg, B. Precise Indoor Positioning Using UWB: A Review of Methods, Algorithms and Implementations. Wirel. Pers. Commun. 2017, 97, 4467–4491. [CrossRef]
- Zuin, S.; Calzavara, M.; Sgarbossa, E.; Persona, A. Ultra Wide Band Indoor Positioning System: Analysis and testing of an IPS technology. IFAC-PapersOnLine 2018, 51, 1488–1492. [CrossRef]
- 23. Gladysz, B.; Santarek, K. An approach to RTLS selection. DEStech Trans. Eng. Technol. Res. 2018, 13-18. [CrossRef]
- Budak, A.; Ustundag, A. Fuzzy decision making model for selection of real time location systems. Appl. Soft Comput. 2015, 36, 177–184. [CrossRef]
- Asosheh, A.; Khanifar, H. A technology selection method: Hospital location detection system. In Proceedings of the 5th International Symposium on Telecommunications, Tehran, Iran, 4-6 December 2010; pp. 992–999. [CrossRef]
- Zafari, F.; Papapanagiotou, I.; Christidis, K. Microlocation for Internet-of-Things-Equipped Smart Buildings. IEEE Internet Things J. 2016, 3, 96–112. [CrossRef]
- Spachos, P.; Papapanagiotou, I.; Plataniotis, K.N. Microlocation for Smart Buildings in the Era of the Internet of Things: A Survey of Technologies, Techniques, and Approaches. IEEE Signal Process. Mag. 2018, 35, 140–152. [CrossRef]
- Dahlman, G.; Omara, J. Real Time Location System for Indoor Environment; Malmö Universitet, Faculty of Technology and Society Computer Engineering: Malmö, Sweden, 2019.
- 29. Luoh, L. ZigBee-based intelligent indoor positioning system soft computing. Soft Comput. 2014, 18, 443-456. [CrossRef]
- Biwas, I. Advantages of Using Ultra Wideband (UWB) Technology for Indoor Positioning. 2018. Available online: https://www.pathpartnertech.com/advantages-of-using-ultra-wideband-uwb-technology-for-indoor-positioning/ (accessed on 6 May 2022).
- 31. Sewio. Product. n.d. Available online: https://www.sewio.net/ (accessed on 6 May 2022).
- Gajšek, B.; Šinko, S. RTLS potential for changes in the tooling industry business model towards smart factory. In Business Logistics in Modern Management; University of Osijek, Faculty of Economics: Osijek, Croatia, 2021; Volume 21, pp. 385–401.
- Subedi, S.; Pyun, J.-Y. Practical Fingerprinting Localization for Indoor Positioning System by Using Beacons. J. Sens. 2017, 2017, 9742170. ICrossRefl
- Grünerbl, A.; Bahle, G.; Lukowicz, P.; Hanser, F. Using Indoor Location to Assess the State of Dementia Patients: Results and Experience Report from a Long Term, Real World Study. In Proceedings of the Seventh International Conference on Intelligent Environments, Nottingham, UK, 25–28 July 2011; pp. 32–39. [CrossRef]
- Leser, R.; Schleindlhuber, A.; Lyons, K.; Baca, A. Accuracy of an UWB-based position tracking system used for time-motion analyses in game sports. Eur. J. Sport Sci. 2014, 14, 635–642. [CrossRef] [PubMed]

Instructions for written papers

https://fl.um.si/en/study/final-thesis-guidelines/

STUDY

RESEARCH

INTERNATIONAL EVENTS

CONTACTS

ABOUT



Faculty of Logistics

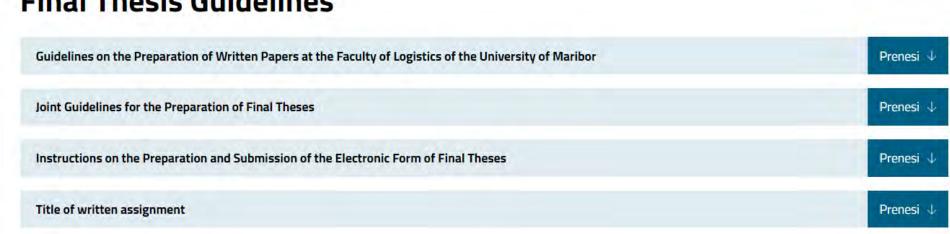
INFORMATION FOR INTERNATIONAL STUDENTS

STUDY PROGRAMMES

STUDENT AFFAIRS OFFICE

FINAL THESIS GUIDELINES

Final Thesis Guidelines





IMPROVING MOBILITY IN XXXX

Project work

Student: Name and last name

Member: assist, prof. Tina Cvahte Ojsteršek, PhD

Subject: Smart and safe mobility MAG

Year of study: 2023

Ljubljana, 2022/2023

Contents	
UST OF ACOMENIATIONS	
INTRODUCTION	
I STATUS QUE ANALYSIS	т т
Z PROPOSEU MEASURES OF SMART AND SAFE MOBILITY	
DAYCUSSION.	
CONTHISIONS	- 4
Little Artige List	- 4
Figures	
Notices of risunds entires round	
Tables	
1-04-14-7	
NOTHING OF FIGURES DITHICS SOUND.	

Introduction In the introduction, consider starting with a brief explanation of what smart and safe. (and sustainable) mobility is and why it is important. Also introduce the city you have chosen and explain Why it is an appropriate location for developing smart and safe mobility in general. Additionally, discuss the goals and objectives of your paper, as well as outline the key issues and challenges you will be addressing. Some possible elements. . Definition: Bagic by defining what is maint by a smart and safe mobility system in a typically used to create such a system. · Importance Explain why a import and safe mobility system is important. This could include discussing the benefits of such a system, such as increased safety, reduced concestion, and improved environmental sustainability. . City Selection/ introduce the hity that you have chosen for your paper. Discuss why system, such as its gas, pagazinting density, equitors transportation infrastructure, or environmental concerns. Do so in brief since you will prepare a detailed implyou of . Sinsis and Objectives: Outside the goals and objectives of the paper. This might include identifying the key research questions that the paper will address and explaining why these guestions are important. Diversily, you should present some key theoretical background in the introduction at Wellas a broad introduction of the thoses tiev.

Formatting guidelines

Citing sources

- Preventing plagiarism and giving credit for work!
- Quotation vs. citation
- All sources used in-text must also be given in the final reference list and vice versa.
- Every time you use an idea, information, data, picture etc. that is not the direct result
 of your own work, you have to cite your source. In-text citing means that you cite the
 source directly in the sentence or paragraph where that information is given

Example of scientific papers

In-text citation: The importance of early childhood education has been widely discussed (Johnson, 2018).

Reference citation: Johnson, E. K. (2018). The role of early childhood education in cognitive development. *Child Development Perspectives*, 12(3), 165-170. doi: 10.1111/cdep.12292

Example of a book

In-text citation: The history of transportation systems has been shaped by a range of technological advancements (Sperling & Gordon, 2009).

Reference citation: Sperling, D., & Gordon, D. (2009). *Two billion cars: Driving toward sustainability*. London, UK: Oxford University Press.

Example of a web page

In-text:

(»OBD GPS Logger«, n.d.)

Reference citation: OBD
GPS Logger. Found on 18
June 2013 at the following
web address:
http://icculus.org/obdgpsl
ogger/

What happens in the case of detected plagiarism?

The instructor requires an explanation of the completed work, additional references, and further proof of authorship.

Plagiarism in the submission processes of students' written works is considered a violation of examination regulations.

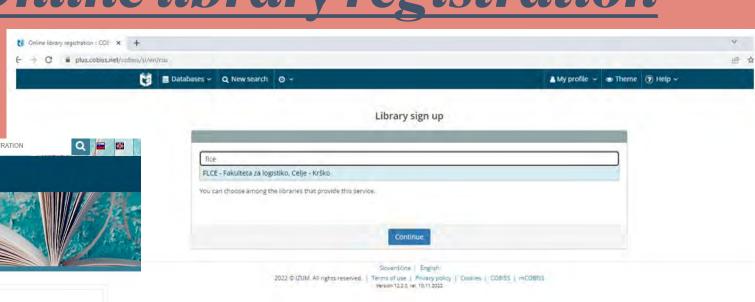
The instructor prepares a record of the plagiarism and submits it to the faculty administration.

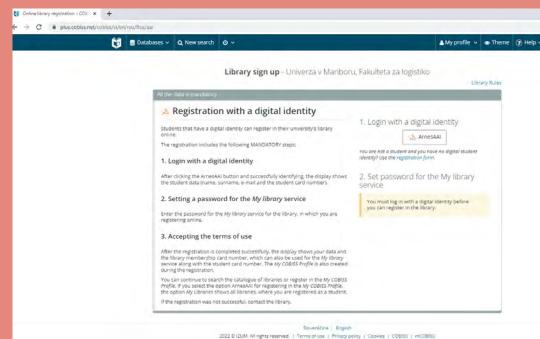
Sanctions are provided for in the Regulations on the Assessment and Evaluation of Knowledge at the University of Maribor.

The "most severe" sanction: prohibition from fulfilling obligations at all faculties of the University of Maribor.

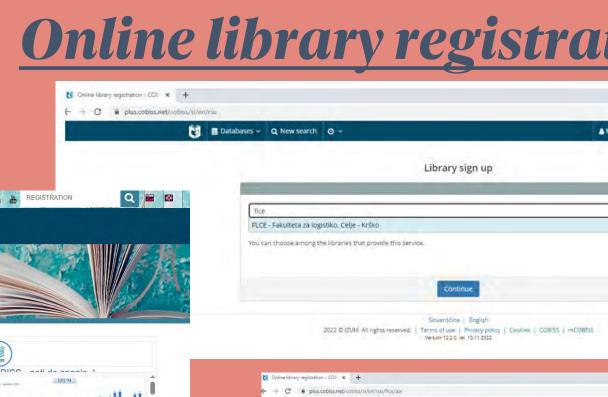


Online library registration





Version 12.2:0, rel. 10:11.2022



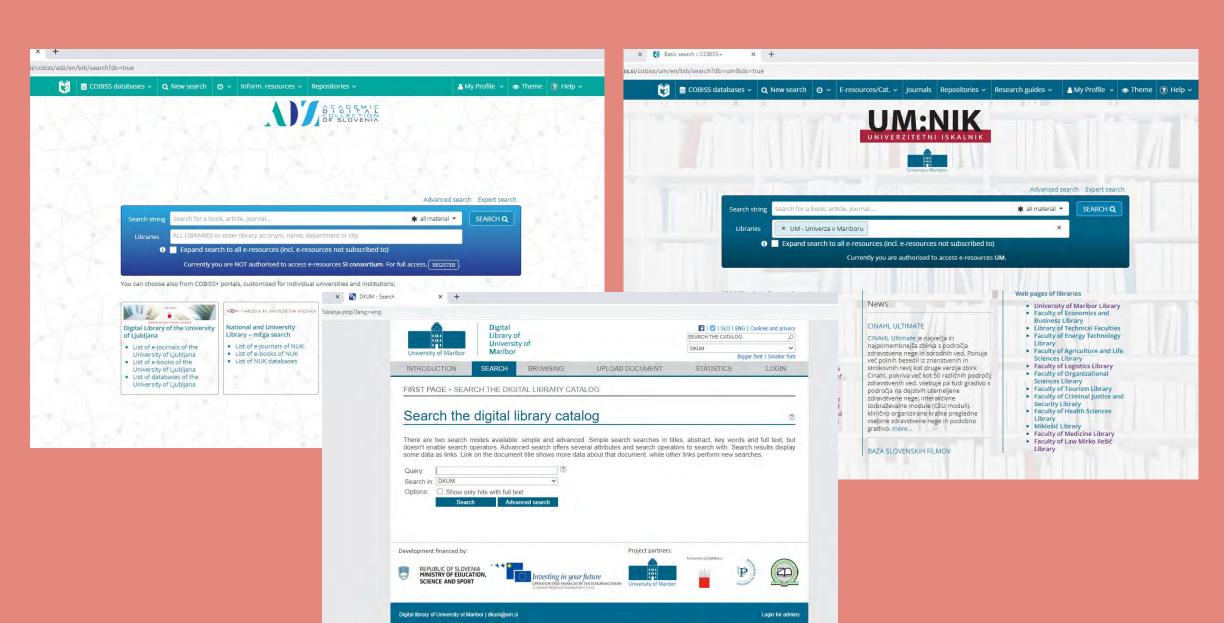


AUTHORS / RESEARCHERS

COBISS

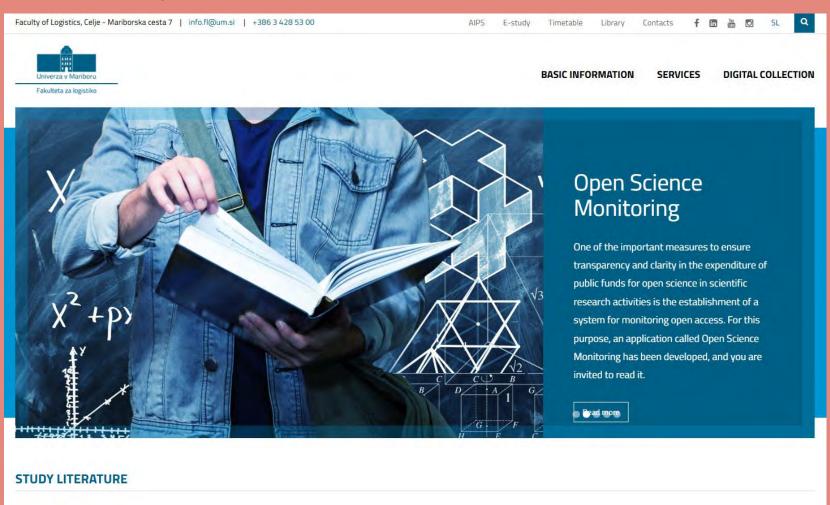
University of Maribor Library

ADZ, UM:NIK, DLUM (DKUM)



Library services

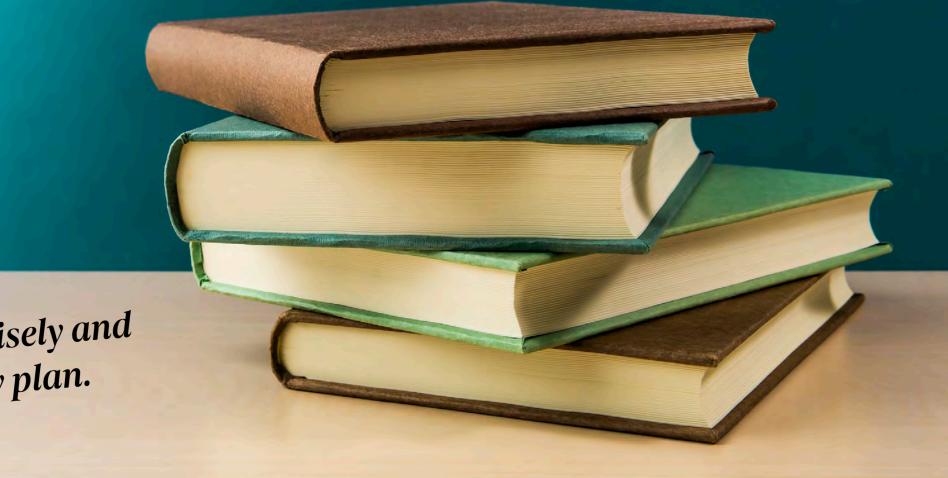
Loan, interlibrary loan, technical reviews of written assignments, bibliographies, information services, user education



Navigating Academic Success: Exams and Advancement Criteria

Valerija Kotnik Student Affairs Office

Your studies are your PRIMARY RESPONSIBILITY!



Plan your time wisely and follow your study plan.

Check your SCHEDULE regularly!

Timetable changes may occur during the semester.

Always review your timetable before coming to class.

All classes in the summer semester will take place in

CELJE.

This applies also to students repeating the year or with extended student status — for them, the rule is valid already now.





Always check the opening hours of the Student Affairs & International Office before visiting.

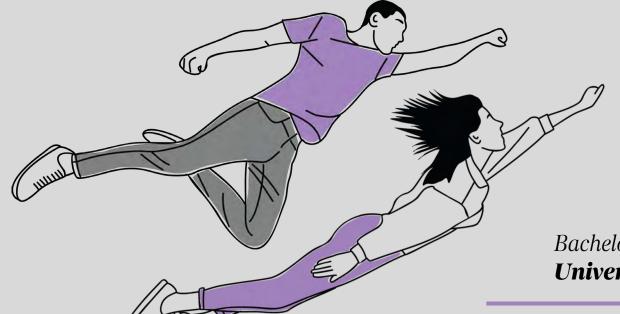


Exceptional conditions, adopted by the Senate of the FL UM, which apply only to students enrolled for the first time in the 1st year of a master's and Bachelor's degree study program (University degree programme)

Students enrolled for the first time in the first year of a Bachelor's or Master's degree programme, part-time study in English language, in the academic year, who, due to exceptional circumstances (e.g. acquisition of a temporary residence permit in a summer semester), submit an application to the Academic Affairs Committee, will:

- 1. Advance to the next year if they achieve at least 30 ECTS credits.
- 2. Renew their student status if they complete at least 1 subject in the current academic year (at least 3 ECTS credits).

Students who do not complete any exam (finish the year with 0 ECTS points) will not have their status renewed, regardless of the desicions adopted at other faculties of the University of Maribor.



Criteria for Advancing in Your Studies

Bachelor's degree programme – **University study programme System Logistics**

To 2nd year

Students advance to the 2nd year if they obtain at **least 46 ECTS** with the completed obligations of the 1st year, and fulfil the obligations in the following subjects:

- Mathematical Methods 1,
- Management of business processes in resilient supply chains,
- Operations research in logistics and
- Mechatronics systems in logistics.

For students retaking the 1st year, the **same conditions** apply for advancement to a higher year of study as for students who regularly advance to a higher year. For students who continue their studies after an interruption, the **same conditions apply for advancement** to the 2nd year as to students who regularly advance to the 2nd year.



Criteria for Advancing in Your Studies

Master's degree study programme

System Logistics

To 2nd year

Students advance to the 2nd year if they obtain at least 38 ECTS with the completed obligations of the 1st year, and fulfil the obligations in the following subjects:

- Managing supply chains of the future,
- Smart and safe mobility,
- Quantitative methods and models in logistics systems.

For students retaking the 1st year, the **same conditions** apply for advancement to a higher year of study as for students who regularly advance to a higher year. For students who continue their studies after an interruption, the **same conditions apply for advancement** to the 2nd year as to students who regularly advance to the 2nd year.

A total of 6 exam attempts are available, with a limit of 3 per year.

Attempts **4, 5, and 6** are subject to a **fee**. ~ *122,70 EUR for each approach*

Ensure **exam registration is completed 7 days prior** to the exam via AIPS.

Deregistration from the exam is possible up to 2 days before, using AIPS.



Progressing to the Next Year WITHOUT Meeting Criteria

A student who has **not fulfilled all the requirements** for advancement to a higher year may exceptionally be granted admission to a higher year by the Academic Affairs Committee of the Faculty of Logistics of the University of Maribor upon student's application in accordance with Article 85 of the Statutes of the University of Maribor, subject to the following conditions:

- student has not been able to fulfil the requirements for justified reasons; and
- student has fulfilled the requirements of the previous years and the requirements of more than 30 ECTS of the year in which student is enrolled, and
- student has **fulfilled the obligations which the Faculty determines that need to be fulfilled** and it is expected that the student will fulfill them.



Additional information

https://fl.um.si/en/

Contact person

Vid Mlejnik

Vid.Mlejnik@um.si



DEEPAK My Journey

