

3.3. Enrolment of students

Report

OVERVIEW OF STUDENT ENROLLMENT

Within the third work package, activity 3.3 is related to the number of enrolled students. After the adoption of the innovative program content, all three HPP institutions carried out campaigns and finally enrolled students. In the context of the global transition towards sustainable energy solutions, all three HPP institutions, UM, UCLO and ATVSS participate in the project "Development of competences for green energy for energy stability" (2022-1-RS01-KA220-HED-000088182) within the Erasmus+ programme. The project aims to integrate topics related to renewable energy sources and sustainability into academic curricula, in order to prepare future engineers for the challenges facing society in the fight against climate change and energy stability. This report provides an analysis of student enrollment trends in second cycles of studies (master's degree programs) at all three HPP institutions for the academic year 2023/2024, year and 2024/25. The report highlights the challenges facing faculty and the Academy and points to strategies to increase enrollment in master's degree programs.

Below is an overview of the number of enrolled students for the school year 2023/24 and 2024/25 in study programs where there were innovated course contents.

33 Učipis studenata.	of North Macedonia	01/07/2023 - 01/10/2023	OHRIDSKI BITOLA (E10206416 - MK)	(E10209163 - SI) JUGO-IMPEX DOO (E10300529 - RS) MZT INZENERING DOO Bitola (E10300604 - MK) <u>Akademija tehničko-vaspitačkih strukovnih studija</u> (E10235380 - RS) UNIVERZA V MARIBORU	3 900,00	Izveštaj
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Competitions for enrollment of new students in the school year

The Academy of Technical Education Applied Studies Niš, Department of Niš, enrolls a total of 160 students in five of its study programs at master applied studies. Every year, the % of filling is around 70%. The popularity of engineering programs is increasing, which has contributed to the attractiveness of the content.

https://akademijanis.edu.rs/wp-content/uploads/2024/06/Konkurs_MSS_ATVSS_2024_2025.pdf

University of Maribor (Faculty of Mechanical Engineering): For the academic year 2024/25, the University of Maribor has recorded stable enrollment in mechanical engineering programs, divided into two main categories:

- **First year:** 12 students are enrolled in the program of Energy, Process and Environmental Engineering, and 40 in Civil Engineering, a total of 70 students.
- **Second year:** 10 students are in Energy, Process and Environmental Engineering, and 32 in Civil Engineering, a total of 47 students (enrolment).

The University of St. Kliment Ohridski – Bitola, opens its doors to new students in the first, second and third cycle of studies. These competitions are published on the UKLO website as well as on the websites of its individual faculties. Prospective students can choose from a diverse range of specialized degree programs. UKLO, through its 12 units, offers a total of 131 programs in all cycles of study (<https://uklo.edu.mk/blog/uklo-niz-brojki>), including:

In the school year 2023/24, the Academy of Technical Education Applied Studies – Department of Niš enrolled 16 students in the master study program Waste Management in the first year, and 14 in the second year, and 14 in the second year for the school year 2024/25, and 12 students in the second year.

Name of the institution		ATPSS Niš
Session		2023&24, 2024/25
Number of enrolled students	I year 23/24	16
	I year 24/25	14
	II year 23/24	14
	II year 14/25	12
Demographic element	Female	21
	Муљкарас	25
Number of graduates 2024		8
Number f graduated in 2025		11
TOTAL		19

UNIVERSITY OF MARIBOR

Name of the institution		University of Maribor, Faculty of Mechanical Engineering
Session		2024/25
Number of enrolled students	I year	12 (Strength, Process and Environmental Engineering) 40 (Construction) 70 TOTAL

	II year	10 (Power, Process and Environmental Engineering) 32 (Civil Engineering) 47 TOTAL
Demographic element	Female	n. a.
	Милъкарас	n. a.
Number of graduates		The Complete Year 2023: 10 (Power, Process and Environmental Engineering) 23 (Civil Engineering) 48 TOTAL Year 2024 to September: 6 (Power, Process and Environmental Engineering) 6 (Civil Engineering)
TOTAL		14

PROGRAM: ENVIRONMENTAL ENGINEERING

Name of the institution		University of Maribor, Faculty of Mechanical Engineering
Session		2024/25
Number of enrolled students	I year	7
	II year	2
Demographic element	Female	n. a.
	Милъкарас	n. a.
Number of graduates		8 (year 2023) 1 (year 2024 to September)

GALLERY

In the academic year 2023/2024, a total of 27 students are enrolled at FTS. The distribution of students by department is as follows:

1. Department of Mechanical Engineering: 9 students;

2. Department of Electrical Engineering: 1 student;
3. Department of Transport and Transport: 9 students;
4. Department of Graphic Engineering: 1 student;
5. Department of Industrial Engineering and Management: 6 students;
6. Department of Mechatronics: 1 student.

In the academic year 2023/2024, there was a significant increase in enrollment at both the Department of Mechanical Engineering and the Department of Traffic and Traffic, which together account for 18 of the total number of enrolled students. This growth can be attributed to effective promotional activities and the growing labor market demand for engineers in these fields.

A comparison with the academic year 2022/2023 shows positive changes in the number of students enrolled for the 2023/2024 academic year.

MECHANICAL ENGINEERING

Name of the institution		UKLO Bitola Faculty of Technical Sciences
Session		2023/245
Number of enrolled students	I year	9
	II year	N/A
Demographic element	Female	N/A.
	Милџкарас	N/A.
Number of graduates		7

Promotion and Enrollment Strategies

All three higher education institutions have taken initiatives to attract students:

- Information sessions in high schools highlighted career opportunities in technical sciences and renewable energy.
- During the open house, prospective students were able to talk directly to professors and explore the college's programs.
- Cooperation with industry partners has been strengthened to provide students with career pathways, internships and insights into real-world working conditions.
- Traditional and digital media have been used to promote the importance of technical sciences and sustainable energy.

Challenges in enrollment

1. The cost of studying in the second cycle, including tuition fees and materials, is a significant barrier for some students.
2. The difference between the local 4+1 structure of study and the more common 3+2 structure in Europe makes it difficult for students to participate in exchange programs.
3. Many local employers are looking for bachelor's degree graduates, reducing students' motivation to pursue master's degrees.

Opportunities to improve enrollment

Suggested strategies for increasing enrollment in master's programs include:

- Scholarships aimed at students in the fields of renewable energy can reduce financial barriers.
 - Partnerships with the energy sector can increase opportunities for practical training, linking education and industry.
 - Attracting foreign students and expanding mobility options can increase the number of students enrolled and the diversity of programs
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This report sheds light on enrollment trends and initiatives within the GREENES project, highlighting successes and areas for further development in order to support student enrollment in the field of sustainable energy.

GREENES Consortium