

## SYLLABUS

**1. Course title:**

The basics of assembly

**2. Code:**

**3. Cycle of study:**

1

**4. ECTS credits:**

3

**5. Type of course:**

Elective

**6. Prerequisites:**

**7. Class restrictions:**

**8. Duration / semester(s):**

1

5

**9. Weekly contact hours and student workload:**

	Semester (1)	Semester (2)	(for two-semester courses)	Workload: (hours)
	1	<input style="width: 40px; height: 20px;" type="text"/>		
9.1. Lectures	2	<input style="width: 40px; height: 20px;" type="text"/>		Classes: 33,75
9.2. Seminars	1	<input style="width: 40px; height: 20px;" type="text"/>		Individual work: 55,8
9.3. Laboratory / Practice classes	0	<input style="width: 40px; height: 20px;" type="text"/>		In total: 89,5

**10. Faculty:**

Faculty of Mechanical Engineering Tuzla

**11. Department/study program:**

Manufacturing Mechanical Engineering

**12. Lecturer:**

Dr. sc. Edin Cerjaković, van.prof.

**13. Course aims:**

The main goal of the course is to help students understand the implementation of the assembly process, which primarily starts from the moment of product construction until the moment of its disassembly. Within the scope of the material covered, a significant part of the attention will be devoted to the selection of the assembly process variant, defining

operating parameters and analyzing the assembly process.

#### 14. Learning outcomes:

Considering that the course is taught in the first cycle of education in the fifth semester, after successfully passing the exam, the student will have the competences to: design a product suitable for the implementation of the assembly and disassembly process, master assembly procedures, perform analysis and define the operating parameters of the assembly process, and determine the limit for introducing manual or automated assembly methods.

#### 15. Course content:

1. Introduction (2)
2. Product Structuring (2)
3. Product Design for Assembly (2)
4. Product Technological Complexity (2)
5. Assembly Process Implementation (2)
6. Assembly Process Variant Selection (2)
7. Assembly Process Variant Selection (2)
8. Assembly Process Variant Selection (2)
9. Manual Assembly (2)
10. Automated Assembly (2)
11. Introduction of Parts into the Assembly Process (2)
12. Assembly Process Analysis (2)
13. Assembly Process Analysis (2)
14. Disassembly Procedure (2)
15. Disassembly Procedure (2)

#### 16. Learning methods:

In order to effectively deliver the course and achieve the set course objectives and student competencies, the following methods will be used during the course:

- lectures,
- auditory exercises,
- individual and team/group work,
- presentation in a real environment.

#### 17. Assessment methods:

Lectures - theoretical lectures, active two-way communication between student and professor, compulsory attendance of students;

- Theory tests - solving tests;
- Tests with tasks - solving tests;
- Seminar/graphic works - independent work of the student to solve the problem;
- Oral final exam - interactive conversation with the student in order to validate the acquired knowledge;
- Consultations - clarification of possible ambiguities related to the topic of the studied subject.

The condition for signing is the student's attendance at a minimum of 70% of lectures and exercises.

Grading Scale:

Grade	Descriptive	Letter	Points
5 (five)	Does not meet minimum criteria	F, FX	<54
6 (six)	Meets minimum criteria	E	54÷64
7 (seven)	Generally good, but with significant shortcomings	D	65÷74
8 (eight)	Average, with noticeable errors	C	75÷84
9 (nine)	Above average, with occasional errors	B	85÷94
10 (ten)	Exceptional success with no errors or with minor errors	A	95÷100

#### 18. Assessment components:

1. Attendance at lectures ( $30 \times 0.217 = 6.5$ )
2. Attendance at exercises ( $15 \times 0.233 = 3.5$ )
3. Tests oral exam (2 tests -  $2 \times 10 = 20$ )
4. Tests written exam (2 tests -  $2 \times 10 = 20$ )
5. Graphic work ( $1 \times 15 = 15$ )
6. Oral (final exam) exam (35)

Through the continuous activities of checking the student's knowledge during the semester (sequential number: 1, 2, 3, 4 and 5), the student can win 65% of the total number of points, and by passing the oral (final) exam another 35% of the total number of points.

---

**19. Mandatory reading list:**

- |   |
|---|
| 1. Ćosić, I., Anišić, Z., Lazarević, M. (2012): Tehnološki sistemi u montaži, FTN, Novi Sad<br>2. Ćosić, I. (2012): Tehnologija demontaže proizvoda, FTN-Izdavaštvo, Novi Sad |
|---|

---

**20. Additional reading list:**

- |   |
|---|
| 1. Ćosić, I. (2006): Tehnologija montaže, FTN, Novi Sad |
|---|

---

**21. Web sources:**

--

---

**22. Applicable from the academic year:**

2025/2026
-----------

---

**23. Adopted in the Faculty/Academy session:**

25.04.2025
------------