SYLLABUS

1. Course title:

Operational production planning

2. Code:

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3. Cycle of study:

I

4. ECTS credits:

3

5. Type of course:

Elective

6. Prerequisites:

None

7. Class restrictions:

None

8. Duration / semester(s):

I | VIII

9. Weekly contact hours and student workload:

	Semester (1)	Semester (2)	(for two-semester courses)		Workload: (hours)
	I				
9.1. Lectures	2			Classes:	22.50
9.2. Seminars	0			Individual work:	57.13
9.3. Laboratory / Practice classes	0			In total:	79.63

10. Faculty:

Faculty of Mechanical Engineering in Tuzla

11. Department/study program:

Manufacturing Engineering / Industrial Engineering and Production Management

12. Lecturer:

Dr. Slađan Lovrić, Associate Professor

13. Course aims:

"The main objective of the course 'Operational Production Planning' is to provide students with a comprehensive understanding of the significance, role, and practical applications of operational planning in production processes, as well as to equip them with essential theoretical knowledge and skills in the field."

14. Learning outcomes:

"Upon successful completion of the course 'Operational Production Planning' and passing the final examination, students will be capable of independently managing and executing operational plans within production processes. In addition, they will be qualified to apply operational planning methods in production systems characterized by small-batch, medium-batch, and mass production."

15. Course content:

Classes will be conducted in accordance with the content – covering the course units following the weekly schedule outlined for the semester.
1. Introductory lectures – the concept of operational preparation,
2. The purpose of operational production planning,
3. Activities of operational preparation and collaboration with other functions and departments,
4. Operational planning: tasks of operational planning, determining the operational planning period, content of the operational plan, preparation for creating the operational plan, production cycles,
5. Flow coefficient, delivery cycle,
6. Determining production capacity – rough scheduling,
7. Planning workload of workstations and deadlines, material planning, preparation of work resources, launching,
8. First continuous knowledge assessment,
9. Simulation as a supporting tool in operational planning,
10. Operational research of technical systems,
11. Operational project management,
12. Operational production planning within an enterprise,
13. Business planning,
14. Second continuous knowledge assessment,
15. Recapitulation of results and review of material covered during the semester.

16. Learning methods:

Theoretical lectures (L) with the use of multimedia tools, chalk and board, and various video materials;
Application of proactive learning techniques;
Seminar paper (L) – independent elaboration of specific topics and problem-solving related to the subject matter;
Consultations – clarification of potential ambiguities related to the studied course content.

17. Assessment methods:

The requirements for obtaining a signature in the student's index include:
Attendance of at least 70% of lectures,
• Defense of the seminar paper (submission of the seminar paper + answering the assigned questions),
• Two continuous knowledge assessments (theoretical part) – the student answers given questions within a set time frame, related to the course material,
• Final exam, Make-up exam, Additional make-up exam (oral or written format).

Grading system:
Pre-exam obligations: 60 points + Final exam: 40 points = TOTAL: 100 points

Grade	Description	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)	Excellent performance with no or negligible errors	A	95 – 100

18. Assessment components:

Grading will be based on the following activities:
1. Attendance at lectures: 10 points
2. Seminar paper defense: 20 points
3. Continuous knowledge assessments during the semester: 2 × 15 = 30 points

Total pre-exam obligations: 60 points

4. Final exam (oral or written): 40 points

TOTAL: 100 POINTS

19. Mandatory reading list:

1. Jasarević S., Brdarevic S., Isakovic S.: Production Management, 165 - 189, Zenica 2020.
2. Instructor's authorized lectures compiled from various sources. (n.d.). [PDF document].

20. Additional reading list:

1. Martic LJ., Vadnal A.: Operational Research, Zagreb 1968.
2. Majdandzic N., R. L., G. M., G. Š., I. M.: Production Management, Slavonski Brod 2001.

21. Web sources:

https://ftp.idu.ac.id/wp-content/uploads/ebook/tdg

22. Applicable from the academic year:

2025./2026.

23. Adopted in the Faculty/Academy session:

April 2025