



SVEUČILIŠTE U ZAGREBU
METALURŠKI FAKULTET

UNIVERSITY OF ZAGREB
FACULTY OF METALLURGY

UNDERGRADUATE UNIVERSITY STUDY PROGRAM METALLURGY



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(from academic year 2017/2018)

No.	Designation	LEARNING OUTCOMES AT THE PROGRAM LEVEL
1	Gen-01	Explain the physical-chemical fundamentals of phenomena characteristic for the technical profession.
2	Gen-02	Apply thermodynamic laws on production processes.
3	Gen-03	Analyse the present situation, identify problems, formulate and recommend the optimal technological solution by using the knowledge acquired.
4	Gen-04	Apply acquired IT knowledge in engineering practice.
5	Gen-05	Apply logical conclusion and precision in data processing.
6	Gen-06	Compare and choose individual technological process.
7	Gen-07	Identify processes and connect obtained results with theoretical models.
8	Gen-08	Choose the most convenient form of energy from the perspective of sustainable development.
9	Gen-09	Use the skills and knowledge of qualitative and quantitative analysis.
10	Gen-10	Apply norms in the technical profession
11	Gen-11	Apply teamwork-oriented, ethical principles and encourage the development of communication and social skills.
12	Met-01	Explain the present situation and define developmental trends of metallurgy as a profession and its impact on the entire economy.
13	Met-02	Describe the material production, select their types and explain their properties for a specific area of application.
14	Met-03	Explain and apply the technology of metals' production, treatment and forming.
15	Met-04	Calculate material and thermal balance of metallurgical processes.
16	Met-05	Predict and solve problems in metals' production.
17	Met-06	Create simple computer applications and use them within existing in metallurgical processes.
18	Met-07	Identify material properties and technological process parameters and adjust them in order to achieve the desired product quality.
19	Met-08	Get acquainted with new metallic materials and technologies and be able to apply them in practice.
20	Met-09	Describe and explain the modern technologies in the metallurgical practice.
21	Eco-01	Describe the present situation and developmental trends of modern industrial ecology.
22	Eco-02	Recognize the eco-toxicological effects on the environment.

23	Eco-03	Compare and choose the best available techniques (BAT) in environmental protection of the metallurgical process and other industries.
24	Eco-04	Predict solutions for efficient waste management.
25	Eco-05	Recognize the connection of health and ecological risks.
26	Eco-06	Apply the regulations relevant to environmental protection in the production processes.
27	Eco-07	Predict methods and identify samples for determining the causes of pollution of environmental components.
28	Eco-08	Describe waste characterization.

