

BASIC DATA

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|------------------------|---------------------------|
| Name of the programme: | Metallurgical Engineering |
| Level (MSc, MA/PhD) | MSc |
| Degree awarded: | diploma |
| Name of qualification: | Metallurgical Engineer |
| Academic year | 2024/25 |

| Metallurgical Engineering MSc | | 1. semester FALL | | | | 2. sem. SPRING | | | | 3. semester FALL | | | | 4. semester SPRING | | | |
|---|----------------|------------------|------------------|--------|---------------|----------------|------------------|--------|---------------|------------------|------------------|--------|---------------|--------------------|------------------|--------|---------------|
| Courses | NEPTUN ID | LECTURE | PRACTICAL COURSE | CREDIT | REQUIREMENTS* | LECTURE | PRACTICAL COURSE | CREDIT | REQUIREMENTS* | LECTURE | PRACTICAL COURSE | CREDIT | REQUIREMENTS* | LECTURE | PRACTICAL COURSE | CREDIT | REQUIREMENTS* |
| CORE COURSES | | | | | | | | | | | | | | | | | |
| Strength of materials | GEMET268M | 2 | 1 | 6 | s e | | | | | | | | | | | | |
| Metal technologies | MAKMET311M | 2 | 1 | 6 | s e | | | | | | | | | | | | |
| Solidification | MAKFKT357M | 2 | 1 | 6 | s e | | | | | | | | | | | | |
| Differential equations | GEMAN015M | | | | | 0 | 2 | 4 | s m | | | | | | | | |
| Applied chemistry and transport processes | MAKKEM272M | | | | | 2 | 1 | 6 | s e | | | | | | | | |
| Materials equilibria | MAKFKT345M | | | | | 2 | 0 | 4 | s e | | | | | | | | |
| Interfacial phenomena | MAKFKT347-17-M | | | | | | | | | 3 | 0 | 4 | s e | | | | |
| MSc summer internship (4 weeks) | MAKDH237M | | | | | | | | | 0 | 40 | 0 | s r | | | | |
| Prepare of MSc degree thesis I. | MAKFKT361-17-M | | | | | | | | | 0 | 8 | 10 | s m | | | | |
| Project management | MAKFKT300M | | | | | | | | | | | | | 2 | 0 | 4 | s e |
| Intellectual properties law | MAKPOL264-17-M | | | | | | | | | | | | | 0 | 3 | 4 | s m |
| Quality management systems | MAKMKT520-17-M | | | | | | | | | | | | | 3 | 0 | 4 | s e |
| Prepare of MSc degree thesis II. | MAKFKT362-17-M | | | | | | | | | | | | | 0 | 9 | 10 | s m |
| SPECIALIZATION COURSES for Heat treatment and metalforming | | | | | | | | | | | | | | | | | |
| Physical met. of heat treated metals & alloys (P. BARKÓCZY) 6kr h | MAKFKT348EN | 3 | 0 | 5 | s e | | | | | | | | | | | | |
| Fundamentals of metal forming (Gy. KRALLICS) | MAKFKT350-17-M | 3 | 0 | 5 | s e | | | | | | | | | | | | |
| Physical metallurgy I. (V. MERTINGER) | MAKFKT225B | 3 | 1 | 4 | s e | | | | | | | | | | | | |
| Simulation of heat treatment processes | MAKFKT349-17-M | | | | | 1 | 3 | 7 | s, m | | | | | | | | |
| Metallic Materials | MAKFKT277B | | | | | 3 | 0 | 2 | s, e | | | | | | | | |
| Metal forming | MAKFKT280B | | | | | 2 | 2 | 4 | s, e | | | | | | | | |
| Heat treatment of non-ferrous alloys | MAKFKT275-17-B | | | | | 2 | 0 | 2 | s, e | | | | | | | | |
| Heat treatment of ferrous alloys | MAKFKT255B | | | | | 2 | 0 | 2 | s, e | | | | | | | | |
| Complex planning or Project Work | MAKFKT352-17-M | | | | | | | | | 0 | 3 | 2 | s, m | | | | |
| Metalforming practices I. | MAKFKT272EN | | | | | | | | | 0 | 2 | 2 | s, e | | | | |
| Simulation of deformation technologies | MAKFKT351-17-M | | | | | | | | | | | | | 2 | 4 | 7 | s e |
| OPTIONAL COURSES | | | | | | | | | | | | | | | | | |
| Elective course I. | | | | | | | | | | | | | | 2 | 0 | 2 | s r |
| Elective course II. | | | | | | | | | | | | | | 2 | 0 | 2 | s r |
| Elective course III. | | | | | | | | | | | | | | 2 | 0 | 2 | s r |
| Elective course IV. | | | | | | | | | | | | | | 2 | 0 | 2 | s r |