

Materials Science

MSc subject

Plans of the lectures and laboratory practices

Time: Tuesdays, 10:20-13:50, Classroom: D207

| DATE | TITLE OF THE LESSON Teacher | Place (classroom or laboratory) | Notes |
|-------------|---|--|---|
| 18 February | Polymer technologies, laboratory practice teacher: Viktor Nagy | L2/5 (laboratory) | laboratory practice |
| 25 February | Theoretical principles of the development and metallurgy of advanced high-strength steels (AHSS), applications in vehicles. teacher: Dr. Ibolya Zsoldos | D207 (classroom) | lecture, presentation |
| 3 March | 3D printing of metals, laboratory practice, Teacher: István Hatos | L2/2 | laboratory practice CAD model (STL file) of small subject can be brought, in order to print it from polymer wire (1 in the group) |
| 10 March | Aluminium and its alloys, applications in vehicles. teacher: Dr. Ibolya Zsoldos | D207 (classroom) | lecture, presentation |
| 17 March | Materials of internal combustion engine: the valves and camshafts. teacher: Dr. Ibolya Zsoldos | D207 (classroom) | lecture, presentation |
| 24 March | Materials of internal combustion engine: the cylinders. teacher: Dr. Ibolya Zsoldos | D207 (classroom) | lecture, presentation |
| 31 March | CT laboratory practice, Teacher: Imre Fekete | CT (laboratory) | laboratory practice Smaller subject (e.g. locking mechanism, etc.) can be brought, in order to make an own reverse engineering model (1 or 2 in the group) |
| 7 April | Polymer materials teacher: Rajmund Schönberger | D207 (classroom) | lecture, presentation |
| 14 April | Microscopes, laboratory practice, Teacher: Tamás Ibriksz | L3/23 | laboratory practice |
| 21 April | 3D printing of polymers teacher: Rajmund Schönberger | AUDI (laboratory) | laboratory practice |

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| 28 April | Titanium alloys, applications in vehicles. teacher: Dr. Ibolya Zsoldos | D207 (classroom) | lecture, presentation |
| 5 May | Students' presentations about the project works | D207 (classroom) | |

Length of the lectures: 2 or 3 class hour (2 or 3 x 45 minutes, from 10:20)

Consultations (about project works and any other questions): after each lecture, until 13:50.

Criterion of the acceptance of the semester: short presentations on 5 May.

Criterion of the credits: oral exam (May-June).

Ibolya Zsoldos