Technical Chemistry lecture
for Mechanical Engineers

Introduction to Chemistry lecture
for Biologists and Physicists

Dr. Gábor Bellér
Assistant professor

Technical Chemistry lecture
Code: MK3MKEMK04GX17
Major: Mechanical Engineering
Credit points: 4

Introduction to Chemistry lecture
Code: TTKBE0141_EN
Major: Biology, Physics
Credit points: 3

Venue: Faculty of Engineering, 2-4, Ótemető (Otemeto) Street, Classroom MK_U.0.01. (ground floor).
Time: 8-10 am, Thursdays

Study aid

Web page for all majors

http://inorg.unideb.hu/oktatas/107

Do not change for English language, just log in under the brown heading on the left: “Bejelentkezés”.

You should give the “Felhasználónév” (username): analitika09. There is no password, just click on the button: “Belépés”.

Web page for mechanical engineers

https://elearning.unideb.hu

After logging in with your own username and password (the ones you use for neptun), look for Technical Chemistry course.

Lecturer: Dr Gábor Bellér, assistant professor

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Recommended textbooks

- John McMurry – Robert C. Fay: Chemistry
7th ed., Prentice Hall; ISBN: 0321943171.
Available in the MEDICINA bookstore in the theoretical building on the medical campus and in the DEENK Kenezy Life Sciences Library.

- Darrell D. Ebbing: General Chemistry
9th ed., Belmont, CA; ISBN: 1-4390-4928-9
Available in the DEENK Kenezy Life Sciences Library.

Schedule and topics

14th February	Introduction, basics of chemistry I.
21st February	Basics of chemistry II.
28th March	Radiochemistry
7th March	Structure of atom
14th March	Periodic table
21st March	Chemical bondings
28th March	Drawing week
4th April	States of matter
11th April	Phase changes, solutions
18th April	Thermochemistry, reaction kinetics I.
25th April	Reaction kinetics II., chemical equilibrium
2nd May	Acid-base theories
9th May	Electrochemistry
16th May	Drawing week/consultation

Exam

- No mid-term test
- Electronic (computer-based) exam during the exam period
- The exam is based on (mostly) multiple choice questions.
- The collection of exam questions (which covers 80-85% of the exam questions) will be available from the homepage of the course in the 1st week of May.
- There will be at least 4-5 exams and 15-20 students may come on each occasion.
- Exam registration is possible via Neptun system.