Subject information for „**Biology, biotechnology**” BMEVEMBM301

(3 credits)

The course has 2-hour lecture/week in spring semester, Wednesdays 14.15-15.45.

Presence of students will be registered but there is no limit for absences.

12 lectures, given by 3 lecturers:

Miklós Pécs, PhD, associate professor

Contacts: F-labor, building F, gate: FE, ground floor 1,

email: [pecs@eik.bme.hu](mailto:pecs@eik.bme.hu)

Áron Németh, PhD, associate professor

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Vince Bakos, PhD, lecturer

Contacts: building CH, basement 35,

email: [bakos.vince@vbk.bme.hu](mailto:bakos.vince@vbk.bme.hu)

Chronology of semester:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Date | Lecture | Topic | Lecturer | tests | room |
| 2024-02-14 | 1 | Cells | M. Pécs |  |  |
| 2024-02-21 | 2 | Industrial microbiology | Á. Németh |  |  |
| 2024-02-28 | 3 | Enzymes | M. Pécs |  |  |
| 2024-03-06 | 4 | Enzymes | M. Pécs |  |  |
| 2024-03-13 | 5 | Enzymes | M. Pécs |  |  |
| 2024-03-20 | 6 | Microbial growth | Á. Németh |  |  |
| 2024-03-27 | 7 | Aeration, agitation | Á. Németh |  |  |
| 2024-04-03 |  | Spring Holiday |  |  |  |
| 2024-04-10 | 8 | Sterilization | Á. Németh | midterm test 1 |  |
| 2024-04-17 | 9 | Downstream processing | M. Pécs |  |  |
| 2024-04-24 | 10 | Technologies, case studies | M. Pécs |  |  |
| 2024-05-01 |  | Labor Day |  |  |  |
| 2024-05-08 | 11 | Wastewater treatment | V. Bakos |  |  |
| 2024-05-15 | 12 | Wastewater treatment | V. Bakos |  |  |
| 2024-05-22 | 13 | Wastewater treatment | V. Bakos | midterm test 2 |  |
|  |  |  |  |  |  |
| 29-May |  |  |  | makeup tests |  |

Evaluation: 2 midterm tests, no final examination

Dates: 10th April and 22nd May

Makeup test: 29th May

The pass level is 30%. Students must pass both tests. The marking system is:

fail=1 under 15 points (30%)

passed=2 15-23 points => mark: 1,51 - 2,49

satisfactory=3 24-32 points => mark: 2,50 - 3,49

good=4 33-42 points => mark: 3,50 - 4,49

excellent=5 43-50 points => mark: 4,50 - 5,50

Marks are calculated linearly with decimals. In the Neptun system beside the marks (integer) in the second column the test points and the marks with decimals will be presented, too. The evaluated tests can be consulted with the lecturers in the F-labor in working hours of the lab during the week after test.

Students must pass at least one midterm test in regular time; they are not allowed to write two makeup tests.

Handouts, slideshows and readings can be found in the

on Teams: Biology, biotechnology, entrance code: **u3ww7g6**

<http://oktatas.ch.bme.hu/oktatas/konyvek/abet/Biology-biotechology_in_English/>

folder.