

# Timetable for Bioprocess Technology-II (CHEM-E3140)

| Lecture and date   | Outline  | Deadline for calculation exercises and respective quiz | Calculation exercise session |
|--|--|--|------------------------------|
| Pre-exercise (recorded lecture)                              | Material balancing, kinetics of growth and stoichiometry | 20.10.2023   | 26.10.2023 (10:15-12:00)     |
| Lecture 1- 24.10.2023 (08:15-10:00)                          | Mixing in bioreactors                                    | 31.10.2023   | 02.11.2023 (10:15-12:00)     |
| Lecture 2- 27.10.2023 (12:15-14:00)                          | Scale-up of bioprocesses                                 | 07.11.2023   | 09.11.2023 (10:15-12:00)     |
| Lecture 3- 02.11.2023 (08:15-10:00)                          | Batch, fed-batch and chemostat operation                 | 12.11.2023   | 14.11.2023 (15:15-17:00)     |
| Lecture 4- 09.11.2023 (08:15-10:00)                          | Downstream processing scale-up I                         | 17.11.2023   | 23.11.2023 (08:15-10:00)     |
| Lecture 5- 13.11.2023 (08:15-10:00)                          | Downstream processing scale-up II                        | 22.11.2023   | 28.11.2023 (14:15-16:00)     |
| Lecture 6- 20.11.2023<br>Lecture 7- 21.11.2023 (08:15-10:00) | Industrial applications of bioprocessing (2 lectures)    | 28.11.2023   | 30.11.2023 (10:15-12:00)     |
| Lecture 8- 30.11.2023 (08:15-10:00)                          | From single cell to a process                            | ----   | ----                         |
| Exam 7.12.2023 (09:00-13:00)                                 |  |  |                              |

- The location for the lectures is Ke3 - A302 – Chemical Engineering
- Calculation Exercises are either in Ke3 or Ke4– Chemical Engineering