

Timetable and topics for lectures

Date	Topic
09.01.2019	Introduction to course
10.01.2019	Part I: An overview of production systems and engineering tools:
15.01.2019	<ul style="list-style-type: none">• Some general remarks
17.01.2019	<ul style="list-style-type: none">• Bacteria (<i>E. coli</i> and alternatives)• Lower eukaryotes (yeasts, fungi)• Higher eukaryotes (plants, mammals, insect cells)
22.01.2019	Part II: Expression of recombinant proteins: limitations and engineering strategies
24.01.2019	<ul style="list-style-type: none">• Engineering of cellular processes for improving productivity
29.01.2019	<ul style="list-style-type: none">• Protein N-glycosylation, protein folding, secretion, cell-cycle and apoptosis in eukaryotes and bacteria
31.01.2019	
05.02.2019	Part III: Metabolic engineering:
07.02.2019	<ul style="list-style-type: none">• Production of small molecules• secondary metabolites
12.02.2019	
14.02.2019	Student presentation: Biotechnologically produced products