

Week	Date	Session Topic	Course Experiments	Project
1	09.09.2025	Introduction to PURE	Micropipetting	–
2	16.09.2025	Molecular Biology Techniques	DNA concentration measurement, transformation, colony PCR, agarose gel	Group allocation
3	23.09.2025	Comparison of Expression Systems	Protein expression in <i>E. coli</i> , lysate-based cell-free system, and PURE, SDS-PAGE	Project discussion
4	30.09.2025	OnePot PURE protein production	Expression of OnePot PURE, preculture preparation	Project discussion
5	07.10.2025	OnePot PURE protein purification	Purification of OnePot PURE using IMAC chromatography	Project discussion
6	14.10.2025	OnePot PURE protein adjustment	Buffer exchange and concentration adjustment of OnePot PURE	First project presentation
7	28.10.2025	Ribosome production	Expression of ribosomes, functional test of OnePot PURE	Order gene blocks
8	04.11.2025	Ribosome purification	Purification of ribosomes using IMAC chromatography	Finalize project protocol
9	11.11.2025	Ribosome adjustment	Buffer exchange and concentration adjustment of ribosomes	Project
10	18.11.2025	Project	Functional test of ribosomes	Project
11	25.11.2025	Project	-	Project
12	02.12.2025	Project	-	Project
13	09.12.2025	Project	-	Final project presentation
14	16.12.2025	Final Exam	-	-