

Schedule for 2310454

INTRO TO GENE ENG (1 credit)

First semester (2025)

Time: WE 10.00–11.00 11.00-12.00

Co-ordinator: Anchalee

Room: 521 SC110

| Topic | Hrs. | Date | Instructor |
|--|------|---------------------------------------|------------|
| 1. Introduction to genetic engineering | 1 | 6-Aug | Anchalee |
| 2. Working with nucleic acids <ul style="list-style-type: none"> - Isolation of DNA/RNA - Qualitative and quantitative determination - Electrophoresis - Enzymes in genetic engineering - PCR and RT-PCR - Labelling and hybridization - DNA sequencing | 6 | 13, 20, 27 Aug, 3, 10, 17 Sep 2025 | Anchalee |
| Mid-term examination: 22 - 26 Sep 2025; 24 Sep 2025 08:30 - 10:30 น. | | | |
| 3. Cloning strategy <ul style="list-style-type: none"> - Hosts, Vectors, Digestion, ligation, - Transformation, transfection, - Screening and selection - Expression of recombinant protein | 3* | 8, 15Oct 2025 | Supitcha |
| 4. Site-directed mutagenesis | 1 | 22-Oct | Karan |
| 5. Gene expression analysis | 1 | 29-Oct | Karan |
| 6. Bioinformatics | 1 | 5-Nov | Karan |
| 7. Applications | 1 | 19-Nov | Karan |
| Final-term examination: 24 Nov - 8 Dec 2025; 27 Nov 2025 08:30 - 10:30 น. | | | |

*นัดเพิ่ม 1 ชม.