

Schedule for 2310454
 INTRO TO GENE ENG (1 credits)
 First semester (2019)

Time: WE 10.00 - 11.00

Room: 503 SCI10

Co-ordinator: Kanoktip

Topic	Hrs.	Date	Instructor
1. Introduction to genetic engineering	1	Aug-14	Kanoktip
2. Working with nucleic acids - Isolation of DNA/RNA - Qualitative and quantitative determination - Electrophoresis - Enzymes in genetic engineering - PCR and RT-PCR - Labelling and hybridization - DNA sequencing	6	Aug 21, 28, Sep 4, 11, 18, 25	Kanoktip
3. Cloning strategy - Hosts, Vectors, Digestion, Ligation	1	Oct-02	Rath
Mid-term examination:			
3. Cloning strategy - Transformation, transfection - Screening and selection - Expression of recombinant protein	2	Oct 16, 30	Rath
4. Site-directed mutagenesis	1	Nov-06	Rath
5. Gene expression analysis	1	Nov-13	Rath
6. Bioinformatics	1	Nov-20	Rath
7. Applications	1	Nov-27	Rath
Final examination:			