

Schedule for 2310332 & 2310333			
BIOMOLECULES & INFORMATION PATHWAYS (3 credits) & METABOLISM AND BIOCHEMICAL REGULATION (3 First semester (2021)			
Time: MO 9.00 - 11.00 TH 9.00 - 10.00 FR 9.00 - 12.00		Co-ordinator: Anchalee (332)	
Room: 521-		Co-ordinator: Nuchanat (333)	
Schedule for 2310332		MS Team: 2310332 BIOMOL/INFO_2021	
		MT Code: rmw8j62	
Topic	Hrs.	Date (update)	Instructor
1. Weak forces	2	9-Aug-21	Thanyada
2. Carbohydrates	3	13-Aug-21	Alisa
2.1 Monosaccharides and disaccharides			
2.2 Polysaccharides			
2.3 Glycoconjugates			
2.4 Carbohydrate as Information molecules: The sugar code			
3. Lipid	3	16 Aug, 19 Aug	Alisa
3.1 Storage lipids			
3.2 Structural lipids in membranes			
3.3 Lipids as signals, cofactors and pigments			
3.4 Working with lipids			
4. The structure of protein	3	20 Aug	Alisa
4.1 Primary structure			
4.2 Secondary structure			
4.3 Tertiary and quaternary structure			
4.4 Protein denaturation and folding			
5. Protein function	3	23 Aug, 26 Aug	Alisa
5.1 Reversible binding of a protein to a ligand			
5.2 Complementary interactions between proteins and ligands			
5.3 Protein interactions modulated by chemical energy			
6. Enzymes			
6.1 The basics of enzymes	0.5	27-Aug	Pawinee
6.2 How enzymes work	0.5		Pawinee
6.3 Enzyme kinetics as an approach to understanding mechanism	2		Pawinee
6.4 Examples of enzyme mechanisms	1	30-Aug	Pawinee
6.5 Regulatory enzymes	1		Pawinee
6.6 Enzyme applications	1	2-Sep	Pawinee
สอบนอกตาราง ครั้งที่1			

7. Nucleic acids and information pathways			
7.1 Nucleic acids	2	3-Sep (9.00-11.00)	Anchalee
7.2 Gene and chromosomes	2	3-Sep (11.00-12.00), 6-	Anchalee
7.3 DNA metabolism (replication)	2	6-Sep (10.00-11.00), 9-	Anchalee
7.4 RNA metabolism (transcription)	2	10-Sep (9.00-11.00)	Anchalee
7.5 Protein metabolism (translation)	2	10-Sep (11.00-12.00),	Anchalee
7.6 Regulation of gene expression	4	13-Sep (10.00-11.00),	Anchalee
7.7 DNA technology	3	20 Sep, 23 Sep,	Kunlaya
7.8 Protein technology	3	24-Sep	Kunlaya

Mid-term examination: สอบ 27 Sep - 1 Oct 2021 [01-Oct-2021, 13:00 - 16:00]

Schedule for 2310333

MS Teams: Met Reg(64)



Mycourseville: 2310333, password: "2310333"

Team code: l755j7r

Topic	Hrs.	Learning method	Date (update)	Instructo
Biological membranes and transport	6	Live online class:	4-Oct, 7-Oct, 8-Oct	Kittikhun
Biochemical Signaling	5	MT	11-Oct, 14-Oct, 15-	Kittikhun
Bioenergetics	2	Live online class: MT	15-Oct (13.00-15.00)	Vorrapon
Glycolysis and gluconeogenesis	4		15-Oct (15.00-16.00), 18-Oct, 21-Oct	Vorrapon
The metabolism of glycogen in animal	2		25-Oct	Vorrapon
The citric acid cycle	3		28-Oct, 29-Oct (9.00-11.00)	Vorrapon
สอบนอกตาราง ครั้งที่2				
Oxidative phosphorylation and photophosphorylation	3	Live online class:	1-Nov, 4-Nov	Nuchanat
Carbohydrate biosynthesis in plants	2	MT	5-Nov (9.00-11.00)	Nuchanat
Fatty acid catabolism	3	VDO clip	8-Nov, 11-Nov	Nuchanat
Lipid biosynthesis	3		12-Nov	Nuchanat
Amino acid metabolism	2	Live online class: MT	15-Nov	Kittikhun
Biosynthesis and degradation of nucleotides	2		18-Nov, 19-Nov (9.00-10.00)	Kittikhun
Metabolic regulation, integration and hormonal regulation of mammalian metabolism	6	VDO clip	22-Nov, 25-Nov, 26-Nov	Nuchanat

Final examination: สอบ 29 Nov - 14 Dec 2021 [03-Dec-2021, 13:00 - 16:00]









