

Pharmaceutical technology IV 2019/2020 2nd semester
(Wednesday 9.50-11.30, Friday 12.20-13.05)

Date	Week	Hours	Lecture	Lecturer	Deputy
February 5	1	2x45	Theoretical considerations of pilot plant practices	Balogh E.	Lengyel M.
February 7	1	1x45	Theoretical considerations of parenteral preparations	Balogh E.	Lengyel M.
February 12	2	2x45	Particle systems and their characterization	Antal I.	Balogh E.
February 14	2	1x45	Classification and preformulation of solid dosage forms. Solid state characterization	Antal I.	Balogh E.
February 19	3	2x45	Granulation I-II.	Antal I.	Balogh E.
February 21	3	1x45	Development of solid dosage forms	Antal I.	Balogh E.
February 26	4	2x45	Capsules I	Antal I.	Balogh E.
February 28	4	1x45	Capsules II	Antal I.	Balogh E.
March 4	5	2x45	Pellets I	Antal I.	Balogh E.
March 6	5	1x45	Transdermal therapeutic systems		
March 11	6	2x45	Pellets II	Antal I.	Balogh E.
March 13	6	-	-		
March 18		-	-		
March 20		-	-		
March 25	7	2x45	Coated dosage forms, coating materials and procedures I	Antal I.	Balogh E.
March 27	7	1x45	Coated dosage forms, coating materials and procedures II	Antal I.	Balogh E.
April 1	8	2x45	Tablets I	Antal I.	Balogh E.
April 3	8	1x45	Tablets II	Balogh E.	Antal I.
April 15	9	2x45	Modern dosage form design: controlled drug release	Antal I.	Budai L.
April 17	9	1x45	Modern dosage form design: modified drug release preparations	Budai L.	Antal I.
April 22	10	2x45	Modern dosage form design: improvement of dissolution and solubility	Budai L.	Antal I.
April 24	10	1x45	Surgical sutures, bandages, implants	Antal I.	Balogh E.
April 29	11	2x45	Modern dosage form design: colloidal carrier systems, liposomes. Topical applications	Antal I.	Balogh E.
May 1	11	1x45	<i>National Holiday</i>		
May 6	12	2x45	Modern dosage form design: Nanocartiers. Molecular pharm. tech. microfabrication, Formulation of biopharmaceuticals.	Antal I.	Budai L.
May 8	12	1x45	Modern dosage forms: excipients and role of their quality	Antal I.	Balogh E.
May 13	13	2x45	Pharmaceutical technology and quality assurance. Quality by Design, PAT, nondestructive analysis	Antal I.	Balogh E.
May 15	13	1x45	Innovative pharmaceutical technological products. Generics and supergenerics	Klebovich I.	Antal I.

Practices

Week	Date	Pilot and parenteral	Chemical	Physical
7	March 23-27	Injections. Aerosols.	Studies of complex formation I.	Studies of solid dosage forms I.
8	March 30-April 03	Ointments. Pellets.	Studies of complex formation II.	Studies of solid dosage forms II.
9	April 06-10	Coating.	Modified release formulations I.	Studies of solid dosage forms III.
10	April 13-17	3D printing.	Modified release formulations II.	Studies of solid dosage forms IV.
11	April 20-24	Solutions. Injections.	Modified release formulations III.	Semisolid dosage forms I.
12	April 27-May 01	Tableting.	Consultation. Supplementation.	Semisolid dosage forms I.
13	May 04-08	Written test	Written test	Written test
14	May 11-15	Consultation. Supplementation.	Consultation. Supplementation.	Consultation. Supplementation.

Budapest, March 20 2020.

Prof. Dr. István Antal