PHARMACEUTICAL ENGINEERING

Week	Lesson	Subject	Lecturer
1. Week*	1. lesson	Current GMP Regulations	Prof. Dr. Erdal Cevher
	2. lesson	Current GMP Regulations	Prof. Dr. Erdal Cevher
2. Week*	1. lesson	Facilities and Equipment - I: Design and Construction Installation; Commissioning and Qualification; Operation and Maintenance; Controls and Automation	Prof. Dr. Erdal Cevher
	2. lesson	Facilities and Equipment - I: Design and Construction Installation; Commissioning and Qualification; Operation and Maintenance; Controls and Automation	Prof. Dr. Erdal Cevher
3. Week*	1. lesson	Facilities and Equipment - II: Design and Construction Installation; Commissioning and Qualification; Operation and Maintenance; Controls and Automation	Prof. Dr. Erdal Cevher
	2. lesson	Facilities and Equipment - II: Design and Construction Installation; Commissioning and Qualification; Operation and Maintenance; Controls and Automation	Prof. Dr. Erdal Cevher
4. Week *	1. lesson	Liquid Dosage Forms Manufacturing	Prof. Dr. Erdal Cevher
	2. lesson	Liquid Dosage Forms Manufacturing	Prof. Dr. Erdal Cevher
5. Week *	1. lesson	Semi-Solid Dosage Forms Manufacturing	Prof. Dr. Erdal Cevher
	2. lesson	Semi-Solid Dosage Forms Manufacturing	Prof. Dr. Erdal Cevher
6. Week *	1. lesson	Sterile Dosage Forms Manufacturing	Prof. Dr. Erdal Cevher
	2. lesson	Sterile Dosage Forms Manufacturing	Prof. Dr. Erdal Cevher
7. Week *	1. lesson	Solid Dosage Forms Manufacturing	Prof. Dr. Erdal Cevher
	2. lesson	Solid Dosage Forms Manufacturing	Prof. Dr. Erdal Cevher
Midterms			
8. Week *	1. lesson	Quality Systems: Risk Management (ICH Q9) and QMS; System Validation	Prof. Dr. Erdal Cevher
	2. lesson	Quality Systems: Risk Management (ICH Q9) and QMS; System Validation	Prof. Dr. Erdal Cevher
9. Week *	1. lesson	Supply Chain Management: Materials Management; Operational Economics	Prof. Dr. Erdal Cevher

	2. lesson	Supply Chain Management: Materials Management; Operational Economics	Prof. Dr. Erdal Cevher
10. Week*	1. lesson	PAT, Parametric Release, Contiuous Manufacturing	Prof. Dr. Erdal Cevher
	2. lesson	PAT, Parametric Release, Contiuous Manufacturing	Prof. Dr. Erdal Cevher
11. Week*	1. lesson	Technology Transfer	Prof. Dr. Erdal Cevher
	2. lesson	Technology Transfer	Prof. Dr. Erdal Cevher
12. Week*	1. lesson	Case	Prof. Dr. Erdal Cevher
	2. lesson	Case	Prof. Dr. Erdal Cevher
13. Week*	1. lesson	Case	Prof. Dr. Erdal Cevher
	2. lesson	Case	Prof. Dr. Erdal Cevher
14. Week*	1. lesson	Case	Prof. Dr. Erdal Cevher
	2. lesson	Case	Prof. Dr. Erdal Cevher

Duration of lecture: 40 minutes

****Homework related to theoretical courses will be given.***