Course Syllabus

Code - Course Title	**ECZ890 - Pharmaceutical Industry**
Course Type	X. SEMESTER
Laboratory + Practice	1+0
ECTS	**1.5**
Language of Instruction	Türkçe
Course Type	Specialization Courses
Course Instructor(s)	PROF. DR. MÜZEYYEN DEMİREL

Mode of Delivery	The mode of delivery of this course is face to face.
Prerequisites	There is no prerequisite or co-requisite for this course.
Courses Recomended	There is no recommended optional programme component for this course.
Recommended Resources	-Türkiye İlaç Sanayii, Nurettin Abacıoğlu, İstanbul, İstanbul Ticaret Odası, 2010, ISBN 978-994460515-1-Kuruluşundan Günümüze Türkiye İlaç Endüstrisi, Nurettin Turan, İstanbul, Scala yayıncılık, 2007, ISBN 978-975-8535-51-4
Work Placement	Practical training is not required for this programme.

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Pharmaceutical industry components	
Week - 2		R&D and pharmaceutical development in pharmaceutical industry	
Week - 3		Solid, liquid, semi-solid pharmaceutical production technologies and processes	
Week - 4		Sterile pharmaceutical production technologies and processes	
Week - 5		Production technologies and processes of inhalation drugs	
Week - 6		Biological products and biotechnology in pharmaceutical industry	
Week - 7		New technologies in pharmaceutical industry: Quality by design	
Week - 8		New technologies in pharmaceutical industry: Three-dimensional printing	
Week - 9		New technologies in pharmaceutical industry: Hot melt extrusion	
Week - 10		Packaging processes in pharmaceutical industry	
Week - 11		Quality management and quality control in pharmaceutical industry	
Week - 12		Pharmaceutical licensing processes	
Week - 13		Marketing in pharmaceutical industry	

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Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 14		Pharmacovigilance	

Learning Outcomes

#	Learning Outcome
1	learns the basic issues in the pharmaceutical industry
2	learns drug production technologies and processes
3	learns new technologies in the pharmaceutical industry
4	learns different processes in the pharmaceutical industry

Sustainable Development Goals

No content has been provided.

Course Theme

No content has been provided.

AKTS Workload

Activity	Duration (Hour)	Count	Workload
Teorik Derse Katılım	0	0	0
Sınıf Dışı Çalışma (Ön Hazırlık & Pekiştirme Amaçlı)	0	0	0
Ödevler	0	0	0
Proje - Rapor - Sunum Hazırlama	0	0	0
Ara Sınav Hazırlığı (sınav süresi dahil)	0	0	0
Final Sınavı Hazırlığı (sınav süresi dahil)	0	0	0
Uygulama (Laboratuvar, Müzik/Enstrüman Uygulaması, Atölye/Saha Çalışması vb.)	0	0	0
Staj Uygulaması	0	0	0
		Calculated ECTS	**0**

Assessment Method and Passing Requirements

No content has been provided.