

DRUG DELIVERY SYSTEMS

1	Course Title:	DRUG DELIVERY SYSTEMS	
2	Course Code:	BYM6003	
3	Type of Course:	Optional	
4	Level of Course:	Third Cycle	
5	Year of Study:	1	
6	Semester:	1	
7	ECTS Credits Allocated:	6.00	
8	Theoretical (hour/week):	3.00	
9	Practice (hour/week):	0.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:		
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Prof. Dr. GÖKHAN GÖKTALAY	
15	Course Lecturers:	Prof. Dr. M. Sertaç Yılmaz Dr. Öğr. üyesi. Şebnem Düzyer Gebizli	
16	Contact information of the Course Coordinator:	Prof. Dr. Gökhan Göktaay BUÜ Tıp Fak. Tıbbi Farmakoloji AD. Email:goktalay@uludag.edu.tr Tel Dahili: 53567	
17	Website:		
18	Objective of the Course:	To teach basic concepts and approaches in drug delivery systems, to teach controlled drug delivery systems and polymer-based delivery systems.	
19	Contribution of the Course to Professional Development:	To learn the general principles of drug transport and release, to learn about nanotechnological and other systems in drug delivery, to learn the types of nanocarriers and the applications of the drug transport system of nanoparticles.	
20	Learning Outcomes:		
		1	To learn the general principles of drug transport and release
		2	To learn the types of nanocarriers and the applications of the drug transport system of nanoparticles.
		3	To have knowledge about electrospinning method
		4	To have knowledge about targeted drug delivery systems
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21	Course Content:		
		Course Content:	
Week	Theoretical	Practice	
1	Introduction to drug delivery systems		
2	Drug administration routes and basic pharmacological principles		

3	Nanofibers and their main properties	
4	Drug loadings on nonofibers	
5	Inotroduction to controled release systems	
6	Biyodegredable polymers	
7	Based on bioerosion polymers and drug transport	
8	Vesicular sytems	
9	Osmotic systems	
10	Targeted drug delivery	
11	Discussion through articles I	
12	Discussion through articles II	
13	Discussion through articles III	
14	Discussion through articles IV	

22	Textbooks, References and/or Other Materials:	Tıbbi Farmakoloji, Oğuz Kayaalp Drug Delivery Systems, Vasant V. Ranade and Manfred A. Hollinger
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23	Assesment
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TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Midterm Exam	0	0.00
Quiz	0	0.00

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical Contribution of Term (Year) Learning Activities to	14	3.00	42.00
Practicals/Labs	0	0.00	0.00
Self study and preparation for Final Exam to Success Grade	8	6.00	48.00
Homeworks	2	40.00	80.00
Projects	0	0.00	0.00
Measurement and Evaluation Techniques Used in the	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	0	0.00	0.00
AL TESTS / WORK LOAD TABLE			
Others	0	0.00	0.00
Final Exams	1	10.00	10.00
Total Work Load			180.00
Total work load/ 30 hr			6.00
ECTS Credit of the Course			6.00

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																

Contribution Level:	1 very low	2 low	3 Medium	4 High	5 Very High
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