MARMARA UNIVERSITY Faculty of Arts and Sciences

Chemistry Department

SYLLABUS

2016-2017 FALL | **Course level:** Lisans (First Cycle)

Course Code	Course Name	Course Type	Course Pool (if exists)	Weekly Course T	Weekly Course A	Local Credit	ECTS Credit	Semester
CHEM4352	Forensic Drug Chemistry	Zorunlu		2		3	3	7

Prerequisite (Ders Kodu ve Adı, Min Harfli Başarı Notu)	Prerequisite to (Ders Kodu ve Adı, Min Harfli Başarı Notu)	Weekly Time & Classroom Schedule (Gün, Saat Aralığı, Derslik)

Course Lecturer	Öğr.Gör.Dr.Ali Sadi BAŞAK	**Teaching Assistants**	
Office/Room No	C016	**Office/Room No**	
Phone+extension	2163479641/1334	**Phone+extension**	
E-mail	asbasak@marmara.edu.tr	**E-mail**	
Web		**Web**	
Office hour schedule		**Office hour schedule**	

Course Objectives

This course provides an introduction to the basic principles and uses of forensic drug chemistry. Students will learn how to apply the chemistry to identificate the illegal substances within the criminal justice sysytem. The course provides the background needed to enable the student to gain entry into a State forensic laboratory in the sub-specialty of forensic drugs, especially narcotics and dangerous drugs.

Textbooks and or References

Course Web page:

1.	Yosun M, Madde Bağımlılığına Genel Bakış, İ.Ü. Cerrahpaşa Tıp Fakültesi Sürekli Tıp Eğitimi Etkinlikleri, Sempozyum Dizisi No:62, 2008; 201-220
2.	Davidson C. New psychoactive substances, Progneuropsychopharmacol. Biol. Psychiatry, 2012; 39:219-220
3.	Huffman JW, Dai D, Martin BR, Compton DR. Design, Synthesis and Pharmacology of Cannabimimetic İndoles, Bioorg. Med. Chem. Lett., 1994; 4:563-566

Course Learning Outcomes

1.	Be able to describe the various aspects of duties of a forensic drug chemist
2.	Be able to describe the various drugs categories and pharmaceutical similarities and differences as they apply to the different legal categories of controlled substances.
3.	Be able to learn what makes a drug illegal.
4.	Be able to learn the harmful effects of drugs.

Program Outcomes x Course Learning Outcomes Matrix

Program Outcomes — 1:Weak; 2:Medium; 3:Strong

PK1	PK2	PK3	PK4	PK5	PK6	PK7	PK8	PK9	PK10	PK11	PK12	PK13	PK14	PK15	Course Learning Outcomes
3						2						2	3		DK1. Be able to describe ...
3						3						2	3		DK2. Be able to describe ...
3		3				2						2	3		DK3. Be able to learn wha...
3											2		3		DK4. Be able to learn the...
3		3			2						2		3		

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				T	A			
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	3	0	3	0	0	2	2	0	0	0	0	2	2	3	0	TOTAL EFFECT

Language of Instruction	Learning Activities and Teaching Methods	Course Presentation Form
	Lecture supported by power point slides, illustrations, blackboard notes and discussion.	Lecture supported by power point slides, illustrations, blackboard notes and discussion.

Week	Date	Weekly Course Content	Reference No - Section
1. Week		Introduction	
2. Week		Principles of Forensic Drug Chemistry	
3. Week		What makes a drug illegal?	
4. Week		Probable and Affirmative Tests for Forensic Drug Chemsitry I	
5. Week		Probable and Affirmative Tests for Forensic Drug Chemsitry II	
6. Week		Classification of Forensic Drugs	
7. Week		Synthetic Forensic Drugs I	
8. Week		Midterm Exam	
9. Week		Synthetic Forensic Drugs II	
10. Week		Legal Drugs	
11. Week		Addictive Substances	
12. Week		How to Distinquish Legal and Illegal Drugs?	
13. Week		Nucleotides and Nucleic Acids: Structure, chemistry, function	
14. Week		Analysis of Forensic Drugs	
15. Week		Forensic Case Samples	
16. Week		Study Week	
17. Week		Final Exam	

Evaluation Tool	YSSL (BDS)	BNAL (BDS)	BDKL (BDS)	Calculation of Grade
Bağıl Değerlendirme Sistemi (BDS)				

	Evaluation Tools	Quantity	Date	Weight in Total (%)	Weight in Semester Evaluation (%)
Evaluation Tools and Weight %	**Final Exam**			60.00	100.00
	Final-Make up Exam (if exists)			60.00	100.00
	Semester Evaluation Tools			40.00	100.00
	Midterm Exam(s)			40.00	100.00
	Quiz(es)				
	Project				
	Homework				
	Laboratory/Atelier				
	Presentation / Seminar / Demo				
	Research / Report / Other				
	Attendance				

Student Workload Calculation

Tool	Weekly Avr. Hour	Semester Total Hour	Tool	Weekly Avr. Hour	Semester Total Hour	Tool	Weekly Avr. Hour	Semester Total hour
Theoretical Hours	2.00	28	Midterm Exam and Preparation		20	Atelier and Preparation		
Applied Hours			Quiz and Preparation			Presentation/Seminar/ Demo and Preparation		
Pre-class Self Study	1.00	14	Project and Preparation			Research/ Report/ Other and Preparation		
Pre-application/Post-application Self Study			Homework and Preparation			Final Exam and Preparation		20
Total Student Workload Hours:	82		***1 ECTS Credit = 25 Student Workload Hours***			**Workload Calculation:**	Hesap Doğru	