

The University of Jordan

Accreditation & Quality Assurance Center

<u>Toxic and Hallucinogenic Plants</u> <u>COURSE Syllabus</u> <u>2021-2022</u>

1	Course title	Toxic and Hallucinogenic Plants
2	Course number	1201531
3	Credit hours (theory, practical)	2 (theory)
3	Contact hours (theory, practical)	26 (theory)
4	Prerequisites/corequisites	1203364
5	Program title	BSc & PharmD
6	Program code	
7	Awarding institution	The University of Jordan
8	Faculty	Pharmacy
9	Department	Pharmaceutical Sciences
10	Level of course	Undergraduate
11	Year of study and semester (s)	4 th , 5 th and 6 th years (elective course)
12	Final Qualification	BSc & PharmD
13	Other department (s) involved in teaching the course	NA
14	Language of Instruction	English
15	Date of production/revision	6 Oct 2021

16. Course Coordinator:

Dr. Yahia Tabaza, *BSc, MSc, PhD.* Office: 209 Phone: 5355000, ext. 23257 E-mail: y.tabaza@ju.edu.jo Office hours: To be announced. Students are welcome to contact the instructor via email or to arrange a meeting via MS teams.

17. Other instructors:

Prof. Khaled tawaha E-mail: <u>tawaha2003@yahoo.com</u>, <u>k.tawaha@ju.edu.jo</u> Office No.: ??? Office hours: To be announced. Students are welcome to contact the instructor via email or to arrange a meeting via MS teams.

18. Course Description:

This course exposes the students to basic knowledge about toxic, hallucinogenic and narcotic plants. The course deals with narcotic and hallucinogenic plant material and compounds, their effect on the brain and biological effects on health in general. In addition, the course discusses toxic plants mainly those endemic to Jordan. Focuses mainly on the toxic part(s), toxic constituents, symptoms of poisoning, treatment and precautions.

19. Course aims and outcomes:

A- Aims:

This course aims at acquainting students with basic knowledge of toxic, hallucinogenic and narcotic plants.

The course involves two parts; the first part discusses toxic plants mainly those which are endemic to Jordan. Focus mainly on the toxic part(s), toxic constituents, symptoms of poisoning, treatment and precautions.

The second part deals with hallucinogenic plant materials and compounds, their history, chemistry, mechanism of action, effects and their treatment options.

B- Intended Learning Outcomes (ILOs):

Upon successful completion of this course students will be able to:

A) Knowledge and Understanding: Student is expected to:

-Understand the science of toxic and hallucinogenic plants

-Acquaint the knowledge of the constituents of plants and their effect on health and brain.

B) Intellectual Analytical and Cognitive Skills: Student is expected to:

-Generally define and investigate in the field the and disciplines related to study toxic and hallucinogenic plants

-Define, identify and evaluate of toxic and hallucinogenic plants

C) Subject-Specific Skills: Student is expected to:

-Acquaint practical knowledge of methods of identification, chemical and physical evaluation of toxic and hallucinogenic plants

-Evaluate the hazardous effects of toxic and hallucinogenic plants on human health and CNS.

D)Transferable Key Skills: Students is expected to:

-Work in a team as work group and discuss results with other colleagues.

- Know how to conduct a literature survey, access specific information about toxic and hallucinogenic plants as well as how to collect data of others research to prepare group common reports.

Teaching Methods

E-Lectures, E-Discussions via zoom, Assignments and Exams.

20. Topic Outline and Schedule:

Content	Week	Instructor	Achieved ILOs	Evaluation Methods	Referenc e (part)
Toxic Plants	1-7	K. Tawaha	A B C D	Exams and assignment s	1, 2
Toxic Hallucinogenic and Allergic Plants	1	K. Tawaha	A B C D	Exams and assignments	1, 2
Removal of the poisonous material	2	K. Tawaha	A B C D	Exams and assignments	1, 2
Internal poisoning caused by eating plant parts	2	K. Tawaha	A B C D	Exams and assignments	1, 2
Plants containing Cardiac glycosides	3	K. Tawaha	A B C D	Exams and assignments	1, 2

Ricinus Communis	3	K. Tawaha	A B C D	Exams and	1, 2
Anticholinergics	4	K. Tawaha	A B C D	assignments Exams and assignments	1, 2
Poison Hemlock, Harmal	4	K. Tawaha	A B C D	Exams and assignments	1, 2
Ecbalium elatrium, Colocynth, Colchicum	5	K. Tawaha	A B C D	Exams and assignments	1, 2
Calotropis, Nicotiana, Potato	5	K. Tawaha	A B C D	Exams and assignments	1, 2
Toxic Hallucinogenic and Allergic Plants	5	K. Tawaha	A B C D	Exams and assignments	1, 2
Removal of the poisonous material	6	K. Tawaha	A B C D	Exams and assignments	1, 2
Internal poisoning caused by eating plant parts	6	K. Tawaha	A B C D	Exams and assignments	1, 2
Plants containing Cardiac glycosides	6	K. Tawaha	A B C D	Exams and assignments	1, 2
Ricinus Communis	7	K. Tawaha	A B C D	Exams and assignments	1, 2
Anticholinergics	7	K. Tawaha	A B C D	Exams and assignments	1, 2
Poison Hemlock, Harmal	7	K. Tawaha	A B C D	Exams and assignments	1, 2
Hallucinogenic plants	8-14	Y. Tabaza	A B C D	Exams	3-6
Introduction	8	Y. Tabaza	A B C D	Exams	3-6
Cocaine	8	Y. Tabaza	A B C D	Exams	3-6
Methaphetamine	9	Y. Tabaza	A B C D	Exams	3-6
Khat and synthetic cathinones	9	Y. Tabaza	A B C D	Exams	3-6
Levodopa, bromocriptine, prescription stimulants and harmaline	10	Y. Tabaza	A B C D	Exams	3-6
DMT	10	Y. Tabaza	A B C D	Exams	3-6
LSD	11	Y. Tabaza	A B C D	Exams	3-6
Ecstasy	11	Y. Tabaza	A B C D	Exams	3-6
Psilocin & Psilocybin	12	Y. Tabaza	A B C D	Exams	3-6
GABA enhancers	13	Y. Tabaza	A B C D	Exams	3-6
Opium	13	Y. Tabaza	A B C D	Exams	3-6
- F			1		
Cannabis	14	Y. Tabaza	A B C D	Exams	3-6

21. Teaching Methods and Assignments:

ILO/s	Learning Methods	Evaluation Methods
	E-Lectures	
	E-Meetings	Exams, Quizzes, Assignments
A B C D	Assignments	Quiz in self-study materials
	Discussions AND Video simulations	

4. self-study

22. Evaluation Methods and Course Requirements:

Opportunities to demonstrate achievement of the ILOs are provided through the following <u>assessment methods and requirements</u>:

- 1. Exams (quiz, midterm and Final)
- 2. Assignment

23. Course Policies:

A- Attendance policies: Attendance: Mandatory. University regulations will be applied				
B- Absences from exams and handing in assignments on time:				
University regulations will be applied				
C- Health and safety procedures: NA				
D- Honesty policy regarding cheating, plagiarism, misbehavior:				
The participation in and/or the commitment of cheating will lead to applying all of the following penalties together				
1) Failing the subject he/she cheated a	Failing the subject he/she cheated at			
2) Failing the other subjects taken in th	Failing the other subjects taken in the same course			
3) Not allowed to register for the next semester. The summer semester is not considered as a semester				
E- Grading policy:				
Exams and Quizzes.				
Oral discussion (4 th week):	10 points			
Quiz (9 th week):	10 points			
Midterm exam:	30 points			
Final Exam:	50 points			
Total	100 points			

F- Available university services that support achievement in the course:

Classrooms, internet classes

24. Required equipment:

Data show and internet connection

25. References:

SN	ISBN	Title	Author	Year
1	1-898298-63-7	Pharmacognosy, Phytochemistry, Medicinal plants	Jean Bruneton	1999 (2 nd Ed)
3	0-7020-2617-4	Trease and Evans Pharmacognosy (2000, 2002, 2004, 2005).	by W.C. Evans	2000 (15 th Ed)
3	978-0-470-74168-9	Medicinal Natural Products	Paul Dewick	2009 (3 rd Ed)
4		NIDA website: http://www.drugabuse.gov/		
5		Addiction blog: https://addictionblog.org/		
6		Drugbank: https://www.drugbank.ca/		

26. Additional information:

Name of Course Coordinator: Dr. Yahia Tabaza	Signature:
Head of curriculum committee/Department:	Signature:
Head of Department: Prof. Sana Bardaweel	Signature:
Head of curriculum committee/Faculty: Prof. Mutasim Ghzawi	Signature:
Dean: Prof. Rana Abu Dahab	Signature:

Date: Oct 6, 2021

<u>Copy to:</u> Head of Department Assistant Dean for Quality Assurance Course File