Course Description Form

1. Course Name:
Pharmacognosy III
2. Course Code:
P_357
3. Semester / Year:
Second semester/third year
4. Description Preparation Date:
20.1.2026
5. Available Attendance Forms:
Theoretical
6. Number of Credit Hours (Total) / Number of Units (Total)
About 30 credit hours/ 2 hours every week.
7. Course administrator's name
Name: DR RUAA ALI OBEID, DR ZANIB JALAL
8. Course Objectives

Course Objectives	• To provide introduction for alkaloids and their main plants • To provide information about the general detection of alkaloids. • To enable students learn the type of alkaloid and the plant contain it and pharmacological effect

9. Teaching and Learning Strategies	
Strategy	-Brainstorming strategy -Discussion strategy - inductive teaching strategy - concept mapping strategy -Self—learning strategy - Learning strategy

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method

1	2	Introduction ofAlkaloi	Provide informatio about Alkaloids,	discussion	Quiz or Assesment
2	2	General of alkaloids	Types of alkaloids Enable to identification alkaloids	discussion	Quize or Assesment
3	2	Pyridine Alkaloids	learn about biothynthesis and plant contines Pyridine	discussion	Quiz or Assesment
4	2	Piperidine Alkaloids	learn about biothynthesis and plant contines Piperidine	discussion	Quiz or Assesment
5	2	Tropane alkaloids	learn about biothynthesis and plant contines Tropane	discussion	Quiz or Assesment
6	2	Pyrrol and Pyrrolidine alkaloids	learn about biothynthesis and plant contines Pyrrol and Pyrrolidine	discussion	Quiz or Assesment
7	2	Quinoline alkaloids	learn about biothynthesis and plant continesQuinolin e	discussion	Quiz or Assesment
8	2	isoquinoline alkaloids	learnabout biothynthesis plantcontines isoquinoline	discussion	Quiz or Assesment

9	2	Indole alkaloids	learn about biothynthesis and plant contines	discussion	Quiz or Assesment
10	2	Purine alkaloids	learn about Indole biothynthesis and plant contines	discussion	Quiz or Assesment
10	2	Imidazole Alkaloids:	learn about Purine biothynthesis and plant contines	discussion	Quiz or Assesment
11	2	Alkaloids of Ergot:	learn about Imidazole biothynthesis and plant contines Alkaloids of Ergot	discussion	Quiz or Assesment
12	2	Steroidal Alkaloids	learn about biothynthesis and plant contines Steroidal Alkaloids	discussion	Quiz or Assesment
13	2	Phytotherapy and Pharmacognosy	learn about Phytotherapy and Pharmacognosy	discussion	Quiz or Assesment
14	2	Antibiotic	learn about Antibiotic	discussion	Quiz or Assesment
15	2	Antibiotic	learn about Antibiotic	discussion	Quiz or Assesment
11. Course Evaluation learn about biothynthesis of alkaloids and plant contines 12. And antibiotic					
Distributing the score out of 20 according to the tasks assigned to the student such as daily, monthly, or written exams, ... etc					
13. Learning and Teaching Resources					

Required textbooks (curricular books, if ar	Treas and Evans pharmacognosy/Collage textbook
Main references (sources)	Robbers JE, Speedie MK, Tyler VE, (The latest edition), pharmacognosy andpharmacobiotechnology, new age international publishers.
Recommended books and references (scientific journals, reports...)	PDR for herbal medicines
Electronic References, Websites	The use of pubMed or researchgate

14. Course Development plan

Work on performing practical exams to recognize the ability of the student tounderstand several type of alkaloids and plant
Work on showing several medicinal and toxic essential plants for students.
Training students on the right prescription of medicinal plants for different clinical cases.