

**University of Al-Anbar**

**College of Pharmacy**

**Department of Pharmacognosy**

Title of the course: ***Practical Pharmacognosy III***

Level: 3<sup>rd</sup> Class, 2<sup>nd</sup> Semester

Credit hours: **Laboratory 1 credit 2 hours/week**

Tutors:

Reference text: ***Lab Manual for Practical Pharmacognosy Adopted by the Department.***

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**Objectives:** This course is intended to study chemistry of other natural products namely alkaloids and antibiotics. Also this course includes studying tissue culture techniques utilized for production of natural products.

No	Lab title	hours
1.	Isolation of <i>Peganum harmala</i> alkaloids.	4
2.	Preparation of Khellin.	4
3.	Flavonoids of <i>Ruta graveolens</i> .	4
4.	Extraction of hesperidin.	4
5.	Isolation of pectin.	2
6.	Isolation of citric acid from lemon juice.	4
7.	Isolation of Podophyllotoxin from <i>Podophyllum emodi</i> ; Isolation of Rotenone from <i>Lonchocarpus</i> Spp.	4
8.	Isolation of <i>Peganum harmala</i> alkaloids.	4