



## Faculty of Pharmacy



## PHARMACEUTICAL BOTANY PRACTICES

# Student Book

2014-2015 Spring Term



## Faculty of Pharmacy



## PHARMACEUTICAL BOTANY PRACTICES

# Student Book

**Prof.Dr.Filiz Meriçli**  
**Assoc.Prof.Dr.Dudu Özkum Yavuz**  
**Azmi Hanoğlu**  
**Duygu Yiğit Hanoğlu**  
**Suzan Çağaloğlu**

2015



NEAR EAST  
UNIVERSITY

**Faculty of Pharmacy**

**PHARMACEUTICAL BOTANY  
PRACTICES**

The Guide to Plant Identification

**Student :**

Name and Surname :

Student Number :

2015

# CONTENT TABLE

Practice Program.....	1
General Lab Rules and Guidelines.....	2
Introduction - Structure of a plant.....	3
<b>Leaves</b> .....	7
The parts of leaf.....	8
<b>Simple leaves</b>	
Shapes of Lamina).....	11
Venation (vascularity of the .....)	14
<b>Compound leaves</b> .....	17
<b>Shapes of Lamina</b> - summary.....	20
Margins of leaves.....	21
Apex of leaves.....	24
Base of leaves.....	25
Surface feature of leaves.....	27
Arrangement.....	31
Functions and usage.....	32
<b>Flowers</b> .....	33
Structure of a flower.....	33
<b>Imperfect-Incomplete flower</b> .....	36
<b>perfect-complete flower</b> .....	37
Calyx (sepal).....	39
Corolla (petal).....	41
Floral symmetry.....	44
<b>Androecium</b> (stamen).....	45
<b>Polen</b> .....	47
<b>Gynoecium</b> (pistil).....	48
Placentation types.....	50
Insertion.....	52
<b>Inflorescence</b> .....	54
<b>Floral Formula and Diagram</b> .....	64
Functions and usage.....	68
<b>Fruits</b> (Fructus).....	69
Types of Fruit.....	71
<b>Dry indehiscent fruits</b> .....	73
Caryopsis,nuts, achene, ssamara,schizocarp.....	75
<b>Dry dehiscent fruits</b> .....	75
Follicle,legume,capsule,siliqua,silique	
<b>Fleshy fruits</b> .....	77
Simple berries,drupe,hesperidium,pepo	
Compound (Multiple)Fruits;Aggregate fruits.....	79
Accesory fruits.....	81
Usage.....	83
<b>Seeds</b> (Semen).....	84
<b>Roots</b> (Radix).....	85
Functions and usage.....	
<b>Stems</b> .....	90
Specialized stems and Microscopical properties.....	94
<b>Barks</b> and Microscopical properties .....	99
<b>Report form</b> .....	103