



## Course Specification Phytotherapy

### I. Course Identification and General Information:

1	Course Title:	Phytotherapy				
2	Course Number & Code:	Ph396				
3	Credit hours:	C.H				Total
		Theoretical	Practical	Training	Seminar	
		2	-	-		2
4	Study level/ semester at which this course is offered:	5 <sup>th</sup> level /1 <sup>st</sup> semester				
5	Pre –requisite (if any):	Pharmacognosy, phytochemistry				
6	Co –requisite (if any):	-				
7	Program (s) in which the course is offered:	Bachelor of Pharmacy				
8	Language of teaching the course:	English				
9	The department in which the course is offered:	Department of Pharmacognosy				
10	Location of teaching the course:	Faculty of Pharmacy				
11	Prepared by:	Dr. Bushra Moharam				
12	Date of approval:					

### II. Course description:

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ا.د. القاسم محمد عباس

عميدة مركز التطوير وضمان الجودة  
ا.م.د. هدى العماد

عميد الكلية  
د.خالد الشوبية

رئيس القسم  
د.سلوى راوح

نائب العميد لشؤون الجودة  
ا.د. محمود البريهي

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-The aims of this course is to provide students information about clinical effectiveness of herbs in the prevention and/or treatment of the diseases affecting digestive system, cardiovascular system, respiratory system, , urinary system, rheumatic conditions, cancer. The course provide students with information about botanical or herbal products that will allow them to make judgments about clinical effectiveness and potential for adverse consequences in patients.

-At the end of the course the student should be able to understand ; the fundamental knowledge about herbal medicine including preparation, identity, efficacy, standardization and its relation to conventional medicine, in addition to the use of herbal medications in some common health problems, its toxicological aspects, regulatory laws of production and forensic pharmacognosy.

## I. Intended learning outcomes (ILOs) of the course:

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1. Know and understand the Professional, ethical and legal practice
2. Acquire good knowledge about herbal medicine as one of the most common alternative therapies
3. Identify pharmacological properties of some herbal medications used and adverse reactions and contraindications of these drugs and the concomitant use of these drugs with conventional medicine
4. Mention the principles of herbal medicine preparation, identification, efficacy and standardization
5. know examples of commonly misused natural drugs and their semisynthetic/synthetic derivatives /analogues
6. Critically evaluate patient problems within the range of Herbal Medicine
7. Design implementation, monitoring, assessment and intervention in drug therapy to obtain the most effective, most safe and economic drug regimen
8. Collect and search for drug information and disseminate gathered information in the precise time to other health care professionals to perform better achievements.
9. contribute to the development of the profession through applied study, analysis of the published literature, drug information and evaluation of medicinal plants and their uses in improving health
10. assess and resolve problems independently react effectively with other health care professionals and patients
11. take Patient history and patient assessment based upon history taken
12. prepare Herbal prescription and treatment plans
13. Develop a plan based on evidence
14. Evaluate treatment plan, with follow-up
15. Communicate effectively with other health care professionals , patients and publics.
16. Work in Teamwork
17. Have good command for information technology skills, both for data recording or for information searching
18. transfer his experience and ideas to others in an acceptable way as well as teach and educate his subordinates.

## II. Intended learning outcomes (ILOs) of the course:

### (A) Knowledge and Understanding:

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Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: <b>Knowledge and Understanding.</b>			
Program Intended Learning Outcomes (Sub-PILOs) in: <b>Knowledge and Understanding</b>		Course Intended Learning Outcomes (CILOs) in: <b>Knowledge and Understanding</b>	
After completing this program, students will be able to:		After completing this course, students will be able to:	
<b>A1-</b>	Recognize the principles of physical, chemical, clinical, social, behavioral, health and pharmaceutical sciences.	<b>a1-</b>	Know and understand the Professional, ethical and legal practice
<b>A4-</b>	Recognize the pharmaceutical dosage form design and the quality control of pharmaceutical formulations according to GMP and pharmacopeial requirements to support the pharmaceutical industries and research.	<b>a2-</b>	Acquire good knowledge about herbal medicine as one of the most common alternative therapies
		<b>a3</b>	Identify pharmacological properties of some herbal medications used and adverse reactions and contraindications of these drugs and the concomitant use of these drugs with conventional medicine
		<b>a4</b>	Mention the principles of herbal medicine preparation, identification, efficacy and standardization
		<b>a5</b>	know examples of commonly misused natural drugs and their semisynthetic/synthetic derivatives /analogues
Teaching And Assessment Methods For Achieving Learning Outcomes:			
Alignment of Learning Outcomes of Knowledge and Understanding to Teaching and Assessment Methods:			
Course Intended Learning Outcomes (CILOs) in <b>Knowledge and Understanding</b>		Teaching strategies/methods to be used	Methods of assessment
completing this course, students will be able to:		<ul style="list-style-type: none"> <li>▪ Lectures using computer and data show, Class activity, Reports and group discussion</li> </ul>	<ul style="list-style-type: none"> <li>▪ Written examination , Oral examination</li> </ul>
<b>a1-</b>	Know and understand the Professional, ethical and legal practice		
<b>a2-</b>	Acquire good knowledge about herbal medicine as one of the most common alternative therapies		
<b>a3</b>	Identify pharmacological properties of some herbal medications used and adverse reactions and contraindications of these		

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	drugs and the concomitant use of these drugs with conventional medicine		
a4	Mention the principles of herbal medicine preparation, identification, efficacy and standardization		
a5	know examples of commonly misused natural drugs and their semisynthetic/synthetic derivatives /analogues		

### (B) Intellectual Skills:

Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: **Intellectual skills**

Program Intended Learning Outcomes (Sub-PILOs) in Intellectual skills		Course Intended Learning Outcomes (CILOs) of Intellectual Skills	
After completing this program, students will be able to:		After completing this course, students will be able to:	
<b>B3-</b>	Design different types of safe and effective pharmaceutical dosage forms and develop novel methods of qualitative and quantitative analytical and biological analysis for pharmaceutical and biopharmaceutical products that support pharmaceutical research.	<b>b1-</b>	Critically evaluate patient problems within the range of Herbal Medicine
<b>B4-</b>	Plan a modern system for administration of medical foundations and merge the ethics to business during the drug marketing	<b>b2-</b>	Design implementation, monitoring, assessment and intervention in drug therapy to obtain the most effective, most safe and economic drug regimen
		<b>b3-</b>	Collect and search for drug information and disseminate gathered information in the precise time to other health care professionals to perform better achievements.

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		<b>b4</b>	contribute to the development of the profession through applied study, analysis of the published literature, drug information and evaluation of medicinal plants and their uses in improving health
<b>Teaching And Assessment Methods For Achieving Learning Outcomes:</b>			
<b>Alignment of Learning Outcomes of Intellectual Skills to Teaching Methods and Assessment Methods:</b>			
Course Intended Learning Outcomes (CILOs) in Intellectual Skills.		Teaching strategies/methods to be used	Methods of assessment
After completing this course, students will be able to:		Lectures, problem solving, Tutorials, Case study, Assignments	coursework, clinical assessment, examination and report writing.
<b>b1-</b>	Critically evaluate patient problems within the range of Herbal Medicine		
<b>b2-</b>	Design implementation, monitoring, assessment and intervention in drug therapy to obtain the most effective, most safe and economic drug regimen		
<b>b3-</b>	Collect and search for drug information and disseminate gathered information in the precise time to other health care professionals to perform better achievements.		
<b>b4</b>	contribute to the development of the profession through applied study, analysis of the published literature, drug information and evaluation of medicinal plants and their uses in improving health		

<b>(C) Professional and Practical Skills:</b>	
<b>Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: Professional and Practical Skills</b>	
Program Intended Learning Outcomes (Sub-PILOs) in Professional and Practical Skills	Course Intended Learning Outcomes (CILOs) in Professional and Practical Skills

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After completing this program, students will be able to:		After completing this course, students will be able to:	
C2-	Handle and dispose chemicals and pharmaceutical preparations safely and effectively.	c1-	assess and resolve problems independently react effectively with other health care professionals and patients
C3-	Extract, isolate, purify, identify and formulate the natural products and assure their rational use.	c2-	take Patient history and patient assessment based upon history taken
		c3	prepare Herbal prescription and treatment plans
		c4	Develop a plan based on evidence
		c5	Evaluate treatment plan, with follow-up

### Teaching And Assessment Methods For Achieving Learning Outcomes:

Alignment of Learning Outcomes of Professional and Practical Skills to Teaching and Assessment Methods:		
Course Intended Learning Outcomes (CILOs) in Professional and Practical Skills	Teaching strategies/methods to be used	Methods of assessment
After completing this course, students will be able to:	Lectures, Tutorials, Case study, Assignments	- discussion, report writing , assignments, exam
c1- assess and resolve problems independently react effectively with other health care professionals and patients		
c2- take Patient history and patient assessment based upon history taken		
c3 prepare Herbal prescription and treatment plans		
c4 Develop a plan based on evidence		
c5 Evaluate treatment plan, with follow-up		

### (D) General / Transferable Skills:

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Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: General and Transferable skills			
Program Intended Learning Outcomes (PILOs) in General / Transferable skills		Course Intended Learning Outcomes (CILOs) in General / Transferable skills	
After completing this program, students will be able to:		After completing this course, students will be able to:	
D1-	Practice independent learning needed for continuous professional development	d1-	Communicate effectively with other health care professionals , patients and publics.
D3	Develop financial, market management, writing, presentation and time management skills as well as creativity, critical thinking, problem solving and decision making abilities.	d2	Work in Teamwork
		d3	Have good command for information technology skills, both for data recording or for information searching
		d4	transfer his experience and ideas to others in an acceptable way as well as teach and educate his subordinates.
Teaching And Assessment Methods For Achieving Learning Outcomes:			
Alignment of Learning Outcomes of General and Transferable skills to Teaching and Assessment Methods:			
Course Intended Learning Outcomes (CILOs) in General and Transferable Skills		Teaching strategies/methods to be used	Methods of assessment
After completing this course, students will be able to:		Group work and exercises, structured learning, practical work	Course work, clinical assessment and examination.
d1-	Communicate effectively with other health care professionals , patients and publics.		
d2-	Work in Teamwork		
d3	Have good command for information technology skills, both for data recording or for information searching		
d4	transfer his experience and ideas to others in an acceptable way as well as teach and educate his subordinates.		

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### III. Course Content:

#### 1 – Course Topics/Items:

##### a – Theoretical Aspect

Order	Topic List / Units	CILOs (symbols)	Sub-topic List	Number of weeks	Contact hours
1	Introduction	a1-5, b3,b4	Definitions, history, safety of phytotherapies, Standardization of Herbal Medicines, Therapeutic Overview of Galenical Preparations	2	4
2		a1-5, b1-4,c1, c4, d3,4,5	Botanical Drug Preparation, Dosage forms of herbal medicinal products, Herb–drug interactions	1	2
3	Plant and digestive system, liver and biliary system	a1-5, b1-4, c1-5, d14	Stomatitis, Gingivitis, Glossitis, Dyspepsia, Flatulence, Gastritis and Peptic Ulcer Disease, Kinetosis (Seasickness), Constipation, Diarrhea, Irritable Bowel Syndrome, liver and biliary tract disorders.	3	6
	Midterm exam	a1-4, b2-4, c3-5		1	2
4	Plant and respiratory system	a1-5, b1-4, c1-5, d14	Rhinitis, Common cold & flu, Bronchial Asthma, Bronchitis, Cough	2	4

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5	Plants and the renal system	a1-5, b1-4, c1-5, d14	cystitis, Urethritis pyelonephritis	1	2
6	Plants and cardiovascular system	a1-5, b1-4, c1-5, d14	Congestive Heart Failure, angina, hypertension, chronic venous insufficient	2	4
7	Plants and inflammation	a1-5, b1-4, c1-5, d14	rheumatoid arthritis, juvenile arthritis, ankylosing spondylitis, psoriatic arthritis, and osteoarthritis.	2	4
8	Anticancer natural drugs	a1-5, b1-4, c1-5, d14	vinca, taxol	1	2
9	Final exam	a1-4, b2-4, c3-5		1	2
<b>Number of Weeks /and Units Per Semester</b>				<b>16</b>	<b>32</b>

#### IV. Teaching strategies of the course:

- Lectures, problem solving, Practice session, Discussions, Small group discussions, Tutorials

#### 3-Assessment Methods:

- Exam, oral discussion, assignments, report,

#### V. Schedule of Assessment Tasks for Students During the Semester:

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No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes (CILOs symbols)
1	Present/Absent	1-16	10	10%	a1-5, b1-4
2	Class activities	1-16	10	10%	c1-5, d1-4
3	Midterm written Exam	7th	20	20%	C1-5, b1-4
5	Final Exam (theoretical)	16th	60	60%	C1-5, b1-4
<b>Total</b>			<b>100</b>	<b>100%</b>	

## VI. Students' Support:

Office Hours/week	Other Procedures (if any)
Two contact hours per week	None

## VII. Learning Resource (MLA style or APA style)S:

### 1- Required Textbook(s) ( maximum two )

- Course note
- FRANCESCO C., TIMOTHY S. G., GIULIANO G., ANGELO A. IZZO. 2003. **Phytotherapy**; A Quick Reference to Herbal Medicine. Springer-Verlag Berlin Heidelberg GmbH

### 2- Recommended Readings and Reference Materials

- Henrich M., Barends j. and Gibbons S.A. 2004. "Fundamentals of Pharmacognosy and Phytotherapy" , , Churchill Livingstone, New York
- Iqbal R. Phytotherapies; efficacy, safety, regulation. 2015 by John Wiley & Sons, Inc. Canada

### 3- Essential References

- Jean Bruneton. 2008. Pharmacognosy, Phytochemistry & Medicinal Plants . 3rd ed
- Brun L. and Cohen M., 2010 "Herbs & Natural Supplements" (2010) 3rd ed., Elsevier, London



<b>4- Electronic Materials and Web Sites etc.</b>	
	<ol style="list-style-type: none"> <li>1. <a href="http://www.Phytomania.org">http://www.Phytomania.org</a>.</li> <li>2. <a href="http://www.medicalbotanyintroduction.html">http://www.medicalbotanyintroduction.html</a>.</li> <li>3. <a href="http://www.botanical.com">http://www.botanical.com</a></li> </ol>
<b>5- Other Learning Material:</b>	
	-

<b>VIII. Facilities Required:</b>	
<b>1 - Accommodation:</b>	<ul style="list-style-type: none"> <li>- Well-equipped lecture halls with data show facilities, whiteboards, net connection, etc.</li> <li>- Well-equipped laboratories with all required equipment and reagents.</li> </ul>
<b>2 - Computing resources:</b>	<ul style="list-style-type: none"> <li>- Computer laboratory with internet facilities.</li> </ul>
<b>IX. Course Improvement Processes:</b>	
<b>1- Strategies for obtaining student feedback on effectiveness of teaching</b>	
	<ul style="list-style-type: none"> <li>▪ Student-based assessment of the effectiveness of teaching using a questionnaire designed by the Quality Assurance Unit at the end of the semester.</li> <li>▪ Meeting with students and faculty (once per semester).</li> </ul>
<b>2- Other strategies for evaluation of teaching by the instructor or by the department.</b>	
	<ul style="list-style-type: none"> <li>▪ Assessment of the course syllabus and contents by the teachers using a questionnaire designed by the Quality Assurance Unit of the university at the end of the semester.</li> <li>▪ Regular meeting and discussion of the course content between the Head of Department and the teaching staff of the course (for theory and practice).</li> </ul>
<b>3- Processes for improvement of teaching.</b>	

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	<ul style="list-style-type: none"> <li>Revision of the course specification and its teaching strategies every three academic years after consideration of all issues raised by the teachers and/or students during regular meetings and discussions.</li> <li>Exploring any possible defects in the course that might be encountered by the teaching staff and their mitigation in subsequent improved versions of course specification.</li> </ul>
<b>4- Processes for verifying standards of students' achievement</b>	
	<ul style="list-style-type: none"> <li>Checking of a sample of students' work by an independent faculty member.</li> <li>Periodic exchange and check marking of a sample of students' assignments with a faculty member from another institution.</li> <li>Adoption of scoring rubrics to assess the students' achievement (both for ongoing or summative assessments).</li> <li>Regular follow-up of laboratory logbooks to assess the practical achievement of students.</li> </ul>
<b>5- Procedures for periodically reviewing of course effectiveness and planning for improvement</b>	
	<ul style="list-style-type: none"> <li>Student rating and feedback</li> <li>Peer rating and feedback</li> <li>Regular meeting of the Curriculum Committee of the faculty.</li> </ul>
<b>6- Course development plans</b>	
	<ul style="list-style-type: none"> <li>Conducting regular workshops for the staff for improving their course specification skills.</li> <li>Regular revision of course specification and syllabus items.</li> </ul>

#### VIII. Course Policies: (including plagiarism, academic honesty, attendance etc)

The University Regulations on academic misconduct will be strictly enforced. Please refer to -----

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1	<b>Class Attendance:</b> <ul style="list-style-type: none"><li>Attendance of all lectures and practical sessions is required. Unexcused absence exceeding 25% of the lectures or practical sessions will disqualify the student from entering the final exam.</li></ul>
2	<b>Tardy:</b> <p>- Roll will be called in the very beginning of each lecture and practical class. Retardation for more than three weeks without a reasonable excursion, the student involved shall not be allowed to attend the class any longer and consequently shall be considered to be absent.</p>
3	<b>Exam Attendance/Punctuality:</b> <ul style="list-style-type: none"><li>Exam attendance is obligatory unless being excused by the department and faculty.</li><li>Absence from assignments or exams will be dealt with according to the general policy of the university.</li></ul>
4	<b>Assignments &amp; Projects:</b> <ul style="list-style-type: none"><li>Assignments: Written and oral; Laboratory logbook signed by the responsible demonstrator. ■</li><li>Projects: Not applicable.</li></ul>
5	<b>Cheating:</b> <ul style="list-style-type: none"><li>Punishment of cheating will be according to the general policy of the university in this respect.</li></ul>
6	<b>Plagiarism:</b> <ul style="list-style-type: none"><li>Plagiarism in written essays, reports, etc. is not accepted, and students who plagiarize the works of others will be punished according to the general policy of the university.</li></ul>
7	<b>Other policies:</b> <ul style="list-style-type: none"><li>General policies of the Students' Affairs of the University and the Quality Assurance Unit.</li></ul>



### Course Plan of Phytotherapy

I. - Information about Faculty Member Responsible for the Course:							
Name of Faculty Member	Bushra Moharam	Office Hours					
Location & Telephone No.	730010755	SAT	SUN	MON	TUE	WED	THU
E-mail	bushramoharam@yahoo.com.	1		1			

II. Course Identification and General Information:						
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2-	Course Number & Code:	Ph396				
3-	Credit hours:	C.H				Total
		Th.	Seminar	Pr.	F. Tr.	
		2	-	-		2
4-	Study level/year at which this course is offered:	5 <sup>th</sup> level /1 <sup>st</sup> semester				
5-	Pre –requisite (if any):	Pharmacognosy, phytochemistry				
6-	Co –requisite (if any):	-				
7-	Program (s) in which the course is offered	Bachelor of Pharmacy				
8-	Language of teaching the course:	English				
9-	System of Study:	Semesters				
10-	Mode of delivery:	Regular				
11-	Location of teaching the course:	Faculty of Pharmacy- Sana`a university				
III. Course Description:						

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The aims of this course is to provide students information about clinical effectiveness of herbs in the prevention and/or treatment of the diseases affecting digestive system, cardiovascular system, respiratory system, , urinary system, rheumatic conditions, cancer. The course provide students with information about botanical or herbal products that will allow them to make judgments about clinical effectiveness and potential for adverse consequences in patients.

-At the end of the course the student should be able to understand ; the fundamental knowledge about herbal medicine including preparation, identity, efficacy, standardization and its relation to conventional medicine, in addition to the use of herbal medications in some common health problems, its toxicological aspects, regulatory laws of production and forensic pharmacognosy.

#### IV. Intended learning outcomes (ILOs) of the course:

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رئيس القسم  
د.سلوى راوح

نائب العميد لشؤون الجودة  
ا.د. محمود البريهي

الموصف  
ا.م.د.بشرى محرم



After completing this course, students will be able to:

1. Know and understand the Professional, ethical and legal practice
2. Acquire good knowledge about herbal medicine as one of the most common alternative therapies
3. Identify pharmacological properties of some herbal medications used and adverse reactions and contraindications of these drugs and the concomitant use of these drugs with conventional medicine
4. Mention the principles of herbal medicine preparation, identification, efficacy and standardization
5. know examples of commonly misused natural drugs and their semisynthetic/synthetic derivatives /analogues
6. Critically evaluate patient problems within the range of Herbal Medicine
7. Design implementation, monitoring, assessment and intervention in drug therapy to obtain the most effective, most safe and economic drug regimen
8. Collect and search for drug information and disseminate gathered information in the precise time to other health care professionals to perform better achievements.
9. contribute to the development of the profession through applied study, analysis of the published literature, drug information and evaluation of medicinal plants and their uses in improving health
10. assess and resolve problems independently react effectively with other health care professionals and patients
11. take Patient history and patient assessment based upon history taken
12. prepare Herbal prescription and treatment plans
13. Develop a plan based on evidence
14. Evaluate treatment plan, with follow-up
15. Communicate effectively with other health care professionals , patients and publics.
16. Work in Teamwork
17. Have good command for information technology skills, both for data recording or for information searching
18. transfer his experience and ideas to others in an acceptable way as well as teach and educate his subordinates.

## X. Course Content:

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إ.د. القاسم محمد عباس

عميدة مركز التطوير وضمان الجودة  
إ.م.د. هدى العماد

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## 1 – Course Topics/Items:

### a – Theoretical Aspect

Order	Topic List / Units	CILOs (symbols)	Sub-topic List	Week Due	Contact hours
1	Introduction	a1-5, b3,b4	Definitions, history, safety of phytotherapies, Standardization of Herbal Medicines, Therapeutic Overview of Galenical Preparations	1,2	4
2		a1-5, b1-4,c1, c4, d3,4,5	Botanical Drug Preparation, Dosage forms of herbal medicinal products, Herb–drug interactions	3	2
3	Plant and digestive system, liver and biliary system	a1-5, b1-4, c1-5, d14	Stomatitis, Gingivitis, Glossitis, Dyspepsia, Flatulence, Gastritis and Peptic Ulcer Disease, Kinetosis (Seasickness), Constipation, Diarrhea, Irritable Bowel Syndrome, liver and biliary tract disorders.	4-6	6
	Midterm exam	a1-4, b2-4, c3-5		7	2
4	Plant and respiratory system	a1-5, b1-4, c1-5, d14	Rhinitis, Common cold & flu, Bronchial Asthma Bronchitis Cough	8,9	4
5	Plants and the renal	a1-5, b1-4, c1-5, d1-	cystitis, Urethritis	10	2

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	system	4	pyelonephritis		
6	Plants and cardiovascular system	a1-5, b1-4, c1-5, d14	Congestive Heart Failure, angina, hypertension, chronic venous insufficient	11,12	4
7	Plants and inflammation	a1-5, b1-4, c1-5, d14	rheumatoid arthritis, juvenile arthritis, ankylosing spondylitis, psoriatic arthritis, and osteoarthritis.	13,14	4
8	Anticancer natural drugs	a1-5, b1-4, c1-5, d14	vinca, taxol	15	2
9	Final exam	a1-4, b2-4, c3-5		16	2
<b>Number of Weeks /and Units Per Semester</b>				<b>16</b>	<b>32</b>

#### V. Teaching strategies of the course:

Lectures, problem solving, Practice session, Discussions, Small group discussions, Tutorials

#### VI. Assessment Methods:

No.	Type of Assessment Tasks	Week Due	Mark	Proportion of Final Assessment
1	Present/Absent	All	10	10%
2	Class activities	All	10	10%
3	Midterm written Exam	7 <sup>th</sup>	20	20%
4	Final Exam (theoretical)	16 <sup>th</sup>	60	60%
5	<b>Total</b>		<b>100</b>	<b>100%</b>

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VII. Learning Resources:	
□	
1- Required Textbook(s) ( maximum two ).	
	<ul style="list-style-type: none"> <li>• Course note</li> <li>• FRANCESCO C., TIMOTHY S. G., GIULIANO G., ANGELO A. IZZO. 2003. <b>Phytotherapy</b>; A Quick Reference to He Medicine. Springer-Verlag Berlin Heidelberg GmbH</li> </ul>
2- Essential References.	
	<ul style="list-style-type: none"> <li>- Jean Bruneton. 2008. Pharmacognosy, Phytochemistry &amp; Medicinal Plants . 3rd ed</li> <li>- Brun L. and Cohen M., 2010 “Herbs &amp; Natural Supplements” (2010) 3rd ed., Elsevier, London</li> </ul>
3- Electronic Materials and Web Sites etc.	
	<ol style="list-style-type: none"> <li>1. <a href="http://www.Phytomania.org">http://www.Phytomania.org</a>.</li> <li>2. <a href="http://www.medicalbotanyintroduction.html">http://www.medicalbotanyintroduction.html</a>.</li> <li>3. <a href="http://www.botanical.com">http://www.botanical.com</a></li> </ol>

VIII. Course Policies:	
<b>1</b>	<b>Class Attendance:</b> <ul style="list-style-type: none"> <li>▪ Attendance of all lectures and practical sessions is required. Unexcused absence exceeding 25% of the lectures or practical sessions will disqualify the student from entering the final exam.</li> </ul>
<b>2</b>	<b>Tardy:</b> <ul style="list-style-type: none"> <li>- Roll will be called in the very beginning of each lecture and practical class. Retardation for more than three weeks without a reasonable excursion, the student involved shall not be allowed to attend the class any longer and consequently shall be considered to be absent.</li> </ul>
<b>3</b>	<b>Exam Attendance/Punctuality:</b> <ul style="list-style-type: none"> <li>▪ Exam attendance is obligatory unless being excused by the department and faculty.</li> <li>▪ Absence from assignments or exams will be dealt with according to the general policy of the university.</li> </ul>



4	<b>Assignments &amp; Projects:</b> <ul style="list-style-type: none"><li>Assignments: Written and oral; Laboratory logbook signed by the responsible demonstrator. ■</li></ul> <b>Projects: Not applicable.</b>
5	<b>Cheating:</b> <ul style="list-style-type: none"><li>Punishment of cheating will be according to the general policy of the university in this respect</li></ul>
6	<b>Plagiarism:</b> <ul style="list-style-type: none"><li>Plagiarism in written essays, reports, etc. is not accepted, and students who plagiarize the works of others will be punished according to the general policy of the university.</li></ul>
7	<b>Other policies:</b> General policies of the Students' Affairs of the University and the Quality Assurance Unit.

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