



جامعة أسيوط

Quality Assurance Unit  
Department of Pharmacognosy

Assiut University  
Faculty of Pharmacy

## Programme Specification

### A- Basic Information

- 1- Programme Title : Master degree in pharmaceutical sciences (Pharmacognosy)
- 2- Programme Type:   Single    Double    Multiple
- 3- Department (s) : Pharmacognosy Dept.....
- 4- Coordinator: Head of department.....
- 5- External Evaluator: Prof.Dr. Ahmed Abd Aziz
- 6- Last date of programme specifications approval:.....

### B- Professional Information

#### 1a. Programme Aims

Master program in Pharmacognosy depends on study of positive impact on the scientific field which is presented as dissertation judged by external evaluator and discussed publicly. The program guarantees studying and passing of general and specific courses that evaluated by final examination. The master's programs develop skills in critical thinking so as to prepare graduates for positions in research, industry and education.

#### 1b. Graduate attributes

The graduate of the programme (master degree in pharmaceutical sciences- Pharmacognosy) must be able to :

- 1-Understanding of law and ethics relating to pharmacy.
- 2-Development of a high level of interpersonal skills.
- 3-Independent learning skills , forming the basis for lifelong learning
- 4-Evidence –based decision –making skills
- 5-Recognition and analysis of problems and planning of strategies.
- 6-Production of pharmacy-specific scientific documentation.
- 7-continuous trials to add a new aspects in his special field
- 8-Share in the scientific library by publish researches in the special periodicals.

9-has the ability of scientific discussion .

10-suggest research ideas to solve the problems of his society and his surrounding environment

11-Submit proposals for the default and research on the problem

12-Find solutions to the obstacles to scientific research, taking into consideration the available data

13-Perseverance and work under changing circumstances

14-Read the results and statistical analysis and a commitment to objectivity...

15-Cooperation with the various disciplines needed for the integration of research methodology used in the plan

16-Linkage between the different parts to obtain a generalizations which servethe virtual research...

17-To provide scientific evidence on the conclusions

184-Summarize and display of scientific researches without prejudice to the exact scientific content.

19- Be honest and dissemination of scientific information and providing advice and counseling

<b>NARS Graduates attributes</b>	<b>Master Pharmacognosy Graduates attributes</b>
<b>11</b>	<b>1</b>
<b>12</b>	<b>2</b>
<b>12</b>	<b>3</b>
<b>6</b>	<b>4</b>
<b>5</b>	<b>5</b>
<b>--</b>	<b>6</b>
<b>--</b>	<b>7</b>
<b>--</b>	<b>8</b>
<b>7</b>	<b>9</b>

<b>4,10</b>	<b>10</b>
<b>5</b>	<b>11</b>
<b>5</b>	<b>12</b>
<b>8,9</b>	<b>13</b>
<b>2</b>	<b>14</b>
<b>6</b>	<b>15</b>
<b>3</b>	<b>16</b>
<b>1</b>	<b>17</b>
<b>--</b>	<b>18</b>
<b>--</b>	<b>19</b>

## **2- Intended Learning Outcomes (ILOs)**

### **a- Knowledge and Understanding:**

**By the end of the programme, the graduate must be able to:**

a1 Define fundamentals of basic sciences of Pharmacognosy and the up to date knowledge and the scientific development in the field of specialization..

a2.Be aware of knowledge of the lab, safety and disposal of waste

a3.Be aware of the ethics in the scientific research and professional practice

a4- list the suitable methods for isolation and identification of the compounds isolated from the medicinal plants. The use of tissue culture technique in cultivation of medicinal asnts in order to obtain high % of active constituents.

a5- Define the principle of molecular biology and its application.

### **a- Intellectual Skills**

**By the end of the programme, the graduate must be able to:**

b1.Make a research study and write scientific methodology when dealing with problems, according to the available information.

b2-Analyse and evaluate information in the field of specialization as benchmarks and extrapolation.

b3 Command Research and make decisions in the professional fields.

b4-To assess the strengths, weaknesses, opportunities and thresholds in the professional practices and develop plans to solve problems

b5-Self-assessment exercise and offer a vision for the development and continuity of dealing with problems.

b6- Deduce logic assignments from tissue culture experiments.

### **c- Professional and Practical Skills**

**At the end of master degree the postgraduate should be able to:**

c1- Demonstrate critical thinking, problem solving and decision making abilities in a variety of theoretical and practical situations.

C2- Master the basic, laboratory and modern skills in the field of specialization.

C3-Write and design a good scientific reports and publications

C4.Know how to keep environmental safely

C5- Apply the quality basics in laboratory practice and hospitals.

### **d- General and Transferable Skills**

**At the end of master degree the postgraduate should be able to:**

d1-Use of information technology in the field of specialization.

d2-Good communication orally and in writing.

d3-work in a team .

d4-Diverse sources of knowledge with the building rules and self-evaluation indicators.

d5.Lifelong learning.

d6-study independently as preparation for continuing professional development.

d7-Manage time efficiently

## **3- Academic Standards**

### **Comparison of Provision to External References**

NARS	M. Sc. Pharm Med.Chem
<p>2.1. Knowledge &amp; Understanding</p> <p>2.1. a</p> <p>2.1.b</p> <p>2.1.c</p> <p>2.1.d</p> <p>2.1.e</p>	<p>Knowledge &amp; Understanding</p> <p>a1</p> <p>a2</p> <p>a5</p> <p>a3</p> <p>a4</p>
<p>2.2. Intellectual skills</p> <p>2.2.a</p> <p>2.2.b</p> <p>2.2.c</p> <p>2.2.e</p> <p>2.2.g</p> <p>-</p>	<p>Intellectual skills</p> <p>b2</p> <p>b1</p> <p>b6</p> <p>b4</p> <p>b3</p> <p>b5</p>
<p>2.3. Professional and practical skills</p> <p>2.3.a</p> <p>2.3.b</p> <p>2.3.c</p> <p>-</p>	<p>Professional and practical skills</p> <p>c2</p> <p>c3</p> <p>c5</p> <p>c1</p>
<p>2.4. general and transferable skills</p> <p>2.4.a</p> <p>2.4.b</p> <p>2.4.d</p>	<p>General and transferable skills</p> <p>d2</p> <p>d1</p> <p>d4</p>

2.4.f	d3
2.4.g	d7
2.4.h	d5, d6

#### 4- Curriculum Structure and Contents

4.a- Programme duration : The student represents his thesis after 5 years of registration.

#### 4.b- Programme structure

Programme courses	Obligatory courses		Selective courses		Elective course	
	Theoretical	Practical	Theoretical	Practical	Theoretical	Practical
<b>Basic science courses</b>	<b>120 hours</b>	-	-	-	-	-
<b>Special courses</b>	-	-	<b>72 hours</b>	<b>Thesis practical work</b>	-	-

The student must pass these courses, write and publish at least one research from his master work in a scientific journal or scientific conference, to obtain the master degree.

Obligatory courses for the theoretical and practical exercises

A-Required:

- 1-Physical pharmacy.
- 2-Instrumental analysis.
- 3-Security and disposal of laboratory wastes.
- 4-Statistics.
- 5-Computers.
- 6-Molecular biology.

B-Selective:

- 1-screening, separation and identification of active constituents.
- 2-Taxonomy of the medicinal plants.
- 3-Advanced study in natural products.

-Written dissertation

## 5- Programme Courses

5.1- Level/Year of Programme...1..... Semester...1.....

a. Compulsory

Course Title	No. of Units	No. of hours /week			Programme ILOs Covered (By No.)
		Lect.	Lab.	Exer.	
<b>-Required:</b>					
<b>1-Physical Chemistry</b>		1			a1, b5, d2
<b>2-Instrumental analysis</b>		2			a1, b5, c1, d2
<b>3- Laboratory Safety and Waste Disposal</b>		1			a2, c4, d2
<b>4-Statistics</b>		1			a1, b5, d2
<b>5-Computerscience</b>		2			b5, d2
<b>6-Molecular biology.</b>		2			a1, b1, b2, b3, c2, d2
<b>B-Selective</b>					
<b>1--screening, separation and identification of active constituents</b>					a1, a3, a4, b1, b2, b3, b4, b5, c2, c3, d1, d2, d6
<b>2-Taxonomy of the medicinal plants</b>					a1, a2, a4, c2, c3, d1, d2, d4, d6
<b>3- Advanced study in natural products</b>					a1, a2, a4, b6, c2, c3, d1, d2, d4, d6

### 4- Curriculum Structure and Contents

4.a- Programme duration..... five years

4.b- Programme structure

-Obligatory Courses for the theoretical practical exercises

A-Required:

1- Physical chemistry.

2- Instrumental Analysis.

3- Security and disposal of laboratory wastes. 4- Statistics.

5- computers

6- Molecular Biology.

B- Selective:

1-Taxonomy of medicinal plants.

2-Advanced study in the natural products

3-Screening, isolation and identification of the active constituents.

-Laboratory works

-Written dissertation

-Dissertation submission

## 5- Programme Courses

5.1- Level/Year of Programme...1..... Semester...1.....

a. Compulsory

Course Title	No. of Units	No. of hours /week			Programme ILOs Covered (By No.)
		Lect.	Lab.	Exer.	
<b>A-Required:</b> <b>1- Physical chemistry.</b> <b>2- Instrumental Analysis.</b> <b>3- Security and disposal of laboratory wastes. 4- Statistics.</b> <b>5- computers</b> <b>6- Molecular Biology.</b>		<b>1</b> <b>2</b> <b>1</b> <b>1</b> <b>2</b> <b>2</b>			
<b>B-Selective</b> <b>1--screening, separation and identification of active constituents</b>		<b>20</b>			
<b>2-Taxonomy of the medicinal plants</b>		<b>24</b>			
<b>3- Advanced study in natural products</b>		<b>28</b>			

b- Elective – number required

c- Optional – number required

5.2 Repeat for all higher years/semesters /levels

## 6- Programme Admission Requirements

Article (15):

Required to enroll the student for a master's degree in Pharmaceutical Sciences:

Entry requirements for the program:

1 - Hold a bachelor's degree in pharmaceutical sciences from a university in the Arab Republic of Egypt or an equivalent degree from another scientific institute



recognized by the Supreme Council of Universities.

2 - no less than the year in appreciation for a good bachelor's and be at least appreciated in specialization accurate very good with the exception of students Arrivals

3 - Make a point of the approval of the student work on a full-time enrollment and if the non-working one of the research centers or universities

7 - the rules governing the completion of the program:

Article (16):

The rules governing the completion of the program:

Is the restriction to a master's degree during the month of September each year and begin the study in November the same year. And make a registration form for the student to the concerned section for submission to the board of the department for an opinion and the date is OK, the College Board is the date of commencement of limitation.

Article (17):

Required to obtain a master's degree in Pharmaceutical Sciences, the student must pass the following courses:

First: General Courses

Second: Specific courses:

Determine the denomination by the divisions, after taking the decision of Supervisory Committee and a maximum of four courses and sets the number of hours for each course but not less than the total number of hours of special courses for 60 hours and not more than 120 hours.

1 - The study of previous courses will be in two stages:

A - To begin the study of general courses in November to be the final exam for these courses through June, following.

B - To begin the study of public courses in early November that the exam is during June,

C - For the College Board on the proposal of the Council of the concerned department to decide to deprive the student to sit the examination in the courses section has taught if the attendance of students in attendance less than 75% of the total actual hours, the section taught in this case the student fails the named decisions forbidden from taking the examination there.

D - A student sit for the exam in the subjects he studied. The estimate and the assess of the success of the student in exams recognized by one of the following estimates:

E - A student must obtain not less than 60% from the end of Great degrees of each course in order to succeed in the article. Failure students are given one chance to repeat the exam during June, following. And the estimate of student failing is either one of the following two estimates, weak, very weak.

G - The student who gets 30% from the end of the Great written provision in any decision of the appreciation is very weak and not combines it.

H - In case of success in the decision which was the failure should not exceed the degree of success which is calculated for the student the maximum degree acceptable with the exception of the absent student's excuse accepted by the College Board.

2 - The student conducting research on the issue approved by the board of the department and the College Board may be registered in question before the passage of at least six months of the student's enrollment for the study and the College Board, based on the recommendation of the Supervisory Committee and after consulting the board of the department concerned to instruct the student to conduct some research at the Institute of I know other recognized by the university that the Supervisory Committee to submit a biannual report on the progress of the student in the research to the Council of the Section.

3 - The student is provided a number of three scientific workshops at least during the period of registration, including the episode to discuss the message in its final form.

4 - The student meter and send the search and at least one of the findings to a specialized scientific journal or a scientific conference specialist.

5 - Make student success tomorrow in the curriculum and performance workshops scientific research findings in a letter accepted by the jury and to discuss the student in the letter publicly.

6 - May not progress the letter for discussion only after one and a half years from the date of OK College Board to register the subject of research.

Article (18):

If the student did not lead during his five years of the date in question fall registration, except where the College Board to maintain the registration for a further period determined on the basis of the report of the Supervisory Committee to the letter and after consulting the board of the department concerned.

Article (19):

May be frozen under the student in case of recruiting or travel outside the country or apply an excuse accepted by the board the department and the College Board and supports the Vice President for Graduate Studies and Research and that of no more than five years to pay registration fees each year.

Article (20):

Repealed under the student to a master's degree in the following cases:

1 - If you run out of times of failure in examinations and assessments in accordance with paragraph e of Article 17 of these Regulations.

2 - If the question had not been recorded within two years from the date of approval of the college enrollment, depending on the report of the supervisors of the letter and the recommendation of the concerned section.

3 - if it appears that there is a degree of kinship between the student and supervisors find gentlemen to the fourth degree.

4 - If you did not receive a master's degree within five years from the date of his registration, except where the College Board to maintain the registry established by a further period based on the proposal of the Supervisory Committee to the letter and the Council of the concerned section.

5 - If you have made to the Oversight Committee on the message accepted by the board reasoned request of the concerned department and the College Board.

6 - If the jury rejected the message an absolute refusal.

7 - If the student submits a request to cancel his registration.

8 - if he does not pay the fees annually assessed on the specified date, after the alarm it.

9 - If the student was lost for follow-up study and research university for two years without an acceptable excuse.

10 - If the supervisor or supervisors consecutive reports to the Board of the concerned department for lack of seriousness of the student in research.

Article (21):

College Board may accept an apology for the student not to enter the final exams if applied, stating the excuse.

Article (22):

Given of getting a master's degree in pharmaceutical sciences certificate indicating the specialization rule and address of the message.

Article (23):

May for the College Board on the proposal of the Council of the department concerned and the adoption of the Vice President for Graduate Studies and Research added or deleted, including decisions given the rapid development in the field of higher studies in pharmaceutical sciences.

### **7- Regulations for Progression and Programme Completion**

First Year/Level/Semester Theory of student achievement exams for basic science and advanced in the area of specialization

-Learning courses

-Evaluating exams

Second Year/Level/Semester

- Measuring the way of educational output target

- Seminars and discussions how to communicate and manage seminars with others

- Periodic reports of the supervisors over the student's progress in meeting the results of research plan developed

- Participation in conferences and publishing student learning what is new in the field of Search

**8- Evaluation of Programme Intended Learning Outcomes**

Evaluator	Tool	Sample
1- Senior students		
2- Alumni		
3- Stakeholders ( Employers)		
4-External Evaluator(s) (External Examiner(s))		
5- Other		

**Head of Department:**

**Program Coordinator**

**Date: / /**