



## PROGRAMME SPECIFICATION

Faculty of Medicine– Mansoura University

### (A) Administrative information

|   |   |
|---|---|
| (1) Programme Title & Code  | Ophthalmology Master degree<br>500                                |
| (2) Final award/degree  | Master degree   |
| (3) Department (s)  | Ophthalmology   |
| (4) Course Coordinator  | Prof.Dr Rasheed El-Lakkany<br>Prof of Ophthalmology. Mans.<br>Un. |
| (5) External evaluator (s)  | Prof Dr Mervat Salah<br>Prof of Ophthalmology, Ain<br>Shams Un.   |
| (6) Date of approval by the Department`s council                        | 31/7/2016   |
| (7) Date of last approval of programme specification by Faculty council | 9-8-2016  |

## (B) Professional information

### (1) Programme Aims:

The broad aims of the Programme are as follows: (either to be written in items or as a paragraph)

**1-The programme will provide trainee ophthalmologists with an in **depth knowledge** of the theory behind the practice of ophthalmology.**

**2- The programme will assess candidates **understanding** using the problem based learning questions in each module.**

**3- The programme will enable the candidate **practical skills** which required to achieve in their base hospital.**

## (2) Intended Learning Outcomes (ILOs):

Intended learning outcomes (ILOs); Are four main categories: knowledge & understanding to be gained, intellectual qualities, professional/practical and transferable skills.

On successful completion of the programme, the candidate will be able to:

### A- Knowledge and Understanding

|            |   |
|------------|---|
| <b>A1</b>  | Describe the anatomy of the Eye   |
| <b>A2</b>  | Recognize updated data and researches concerning the eye, adnexae and nervous system specially in the field of microscopic and functional anatomy.  |
| <b>A3</b>  | Describe the Optics of the Eye  |
| <b>A4</b>  | Recognize updated data and researches including the application of physical, geometric and physiological optics to clinical management and an appreciation of the new principles of instrumentation and clinical practice in these areas. |
| <b>A5</b>  | Recognize topics in general medicine & neuromedicine in relation to the eye :   |
| <b>A6</b>  | Recognize updated data and researches concerned general and neuro medicine in relation to the eye   |
| <b>A7</b>  | Recognize topics in General Surgery in relation to the eye  |
| <b>A8</b>  | Recognize updated data and researches concerned general surgery in relation to the eye  |
| <b>A9</b>  | Recognize topics of Ocular Pathology  |
| <b>A10</b> | Recognize updated data and researches concerned Ocular Pathology .  |
| <b>A11</b> | Recognize the topics of Ophthalmic Medicine.  |
| <b>A12</b> | Recognize updated data and researches concerned Ophthalmic Medicine.  |
| <b>A13</b> | Recognize different topics of Ophthalmic surgery  |
| <b>A14</b> | Recognize updated data and researches concerned Ophthalmic surgery  |
| <b>A15</b> | Show their recognition of basics of Microbiology and pathology.   |
| <b>A16</b> | Recognize updated data and researches concerned the eye, adnexae and nervous system.  |
| <b>A17</b> | Show their recognition of Physiology of the Eye   |
| <b>A18</b> | Recognize updated data and researches concerned the physiology the eye, adnexae and nervous system.   |

## 2- Intellectual activities (I)

The Postgraduate Degree provides opportunities for candidates to achieve and demonstrate the following intellectual qualities.

|            |  |
|------------|--|
| <b>I1</b>  | Integrate microscopic and functional anatomy .                                       |
| <b>I2</b>  | Formulate a systematic approach for proper refractive and optical corrective methods |
| <b>I3</b>  | Integrate systemic & neurological disorders and their ocular impact.                 |
| <b>I4</b>  | Integrate general surgical principles with ocular surgery                            |
| <b>I5</b>  | predict the natural history of different ocular pathological issues.                 |
| <b>I6</b>  | Integrate clinical findings in an ophthalmic diagnosis .                             |
| <b>I7</b>  | formulate proper plan of treatment   |
| <b>I8</b>  | Integrate different procedures in management of ocular diseases.                     |
| <b>I9</b>  | Integrate basic biomedical science with clinical care.                               |
| <b>I10</b> | understand the mechanism of vision, eye metabolism and their deviations              |

## C- Professional/practical skills

|            |   |
|------------|---|
| <b>P1</b>  | demonstrate their skills in <b>surgical anatomy and reconstructive surgeries</b>                                      |
| <b>P2</b>  | Perform retinoscopy   |
| <b>P3</b>  | Interpret topography  |
| <b>P4</b>  | Demonstrate their skills in diagnosing different ocular disorders associated with systemic and neurological diseases. |
| <b>P5</b>  | Demonstrate their skills in <b>surgical emergencies</b> .   |
| <b>P6</b>  | Demonstrate their <b>skills plastic and reconstructive surgeries</b>  |
| <b>P7</b>  | Demonstrate their skills in <b>diagnosis of different pathological lesions</b> .                                      |
| <b>P8</b>  | Demonstrate their <b>skills in histopathological diagnosis</b> .  |
| <b>P9</b>  | Demonstrate their skills in <b>diagnosis of various ocular disorders</b> .  |
| <b>P10</b> | show an ability to <b>implement different management plans for various ocular disorders</b>                           |
| <b>P11</b> | Demonstrate their skills in management of ocular diseases   |
| <b>P12</b> | Demonstrate their skills in prediction of the nature , severity and prognosis of various ocular disorders.            |
| <b>P13</b> | Demonstrate their skills in <b>detection of normal ocular phenomena</b>   |

#### D- Communication & Transferable skills

|           |  |
|-----------|--|
| <b>T1</b> | Demonstrate competence in data presentation. Statistical analysis and interpretation.                                    |
| <b>T2</b> | Demonstrate key skills in the retrieval, preparation, analysis and interpretation of information from different sources. |
| <b>T3</b> | Make effective use of information technology e.g. web and internet. Database work  |
| <b>T4</b> | Demonstrate self-direction and some originality in tackling and solving problems   |
| <b>T5</b> | Work effectively both individually and in team and making appropriate use of the capacities of group members             |
| <b>T6</b> | Communicate effectively, using the appropriate method with audiences of different levels of knowledge or experience.     |

#### **(3) Academic standards.**

Academic standards for the programme are attached in **Appendix I**. in which **NARS** issued by the National Authority for Quality Assurance & Accreditation in Education are used. External reference points/Benchmarks are attached in **Appendix II**.

External reference points/benchmarks are selected to confirm the appropriateness of the objectives, ILOs and structure of assessment of the programme. (please list here the references and the website)

<http://www.rcsed.ac.uk/site/389/default.aspx>

[http://www.icoph.org/refocusing\\_education/educational\\_programs/residency.html](http://www.icoph.org/refocusing_education/educational_programs/residency.html)

#### (4) Curriculum structure and contents:

4.a- Duration of the programme (in years or months):..... 42 months

#### 4.b- programme structure:

Candidates should fulfill a total of ...45.....credit hours

#### ●4.b.1: Number of credit hours:

##### First part:

6 credit hours one semester 15 weeks.

##### Second part:

18 credit hours , threes semesters each 15 weeks.

##### Thesis:

6 credit hours.

##### Clinical training program:

14 credit hours

##### Scientific activities

2 credit hours

#### ●4.b.2: Teaching hours/week:

##### 1st Part:

Lectures: 5 teaching hours per week

Clinical/lab 0 hour per week

Total:5 credit hours

##### 2nd Part:

Lectures: 6 teaching hours per week

Total 6 credit hours in each of the three semesters .

(5) Programme courses.

| الساعات المتعمدة |        | الكود         | Course  | المقرر                               |                     |
|------------------|--------|---------------|---|--------------------------------------|---------------------|
| الإجمالي         | المقرر |               |   |                                      |                     |
| 5                | ١      | OPHT501       | Anatomy and Embryology of the eye OPHT501             | التشريح و النمو الجنيني للعين        | الفصل الدراسي الأول |
|                  | ١      | OPHT503       | Physiology of the Eye OPHT503                         | فسيولوجيا العين                      |                     |
|                  | ١      | OPHT522 BO    | Basic of Optics OPHT522 BO                            | مبادئ البصريات                       |                     |
|                  | ١      | OPHT510       | Basic of internal medicine related to the eye OPHT510 | أمراض الباطنة                        |                     |
|                  |        | OPHT512       | Neurology related to the eye OPHT512                  | الأمراض العصبية المتعلقة بالعيون     |                     |
|                  | ١      | OPHT520       | Basic of surgery related to the eye OPHT520           | مبادئ الجراحة العامة                 |                     |
|                  |        | OPHT 505& 507 | Pathology and Microbiology OPHT 505& 507              | الباثولوجيا العامة و الميكروبيولوجيا |                     |
|                  |        |               |   |                                      | الفصل الدراسي       |
|                  | ٦      | OPHT 522 OS   | Ophthalmic Surgery OPHT 522 OS                        | جراحة العين                          |                     |

|    |   |   |   |                 |                              |
|----|---|---|---|-----------------|------------------------------|
| 18 | ٦   | OPHT 522 OM                                   | Ophthalmic Medicine<br>OPHT 522 OM  | طب العين        | الثاني<br>والثالث<br>والرابع |
|    | ٥   | OPHT 522 OP                                   | Ocular Pathology OPHT<br>522 OP   | باطولوجيا العين |                              |
|    | ١   | OPHT 522 OI<br>& OPHT 522 CS &<br>OPHT 522 EM | Ancillary diagnostic<br>ophthalmic tests:<br><br>1- Retina<br><br>2- Orbit and<br>adenexa<br><br>3- Cornea and<br>refractive<br>surgery |                 |                              |
| 14 | • برنامج التدريب الاكلينيكي والعملي في الجراحة            |   |   | كراسة           | الأنشطة                      |
| 2  | • أنشطة علمية مختلفة                                      |   |   |                 |                              |
| 6  | تبدأ مع بداية الفصل الدراسي الثاني وتستمر لمدة أربعة فصول |   |   | الرسالة         |                              |
| 45 | إجمالي الساعات المعتمدة                                   |   |   |                 |                              |

**Second part**

**a. Compulsory courses**

| Course     | Lectures | Clinical | Total teaching hours |               |
|------------|----------|----------|----------------------|---------------|
|            |          |          | lectures             | Clinical      |
| Ophthalmic | 6        | 6        |                      |               |
| Surgery    | Sems 3:  | Sems 3:  | Sems 3:              | Sems 3:       |
| OPHT 522   | 2        | 2        | 30hrs                | 70hrs         |
| OS         | Sems 4:  | Sems 4:  | Sems 4:              | Sems 4:       |
|            | 2        | 2        | 30 hrs               | 70hrs         |
|            | Sems 5:  | Sems 5:  | Sems 5: 30hrs        | Sems 5: 70hrs |
|            | 2        | 2        | Total:               | Total:        |
|            |          |          | 90hrs                | 140 hrs       |
| Ophthalmic | 6        | 6        |                      |               |
| Medicine   | Sems 3:  | Sems 3:  | Sems 3:              | Sems 3:       |
| OPHT 522   | 2        | 2        | 30hrs                | 70hrs         |
| OM         | Sems 4:  | Sems 4:  | Sems 4:              | Sems 4:       |
|            | 2        | 2        | 30 hrs               | 70hrs         |
|            | Sems 5:  | Sems 5:  | Sems 5: 30hrs        | Sems 5: 70hrs |
|            | 2        | 2        | Total:               | Total: 140hrs |

|           |         |         |               |                |
|-----------|---------|---------|---------------|----------------|
|           |         |         | 90hrs         |                |
| Ocular    | 5       | 2       |               |                |
| Pathology | Sems 3: | Sems 3: | Sems 3:       | Sems 3:        |
| OPHT 522  | 2       | -       | 30hrs         | -              |
| OP        | Sems 4: | Sems 4: | Sems 4:       | Sems 4:        |
|           | 2       | 1       | 30 hrs        | 30 hrs         |
|           | Sems 5: | Sems 5: | Sems 5: 15hrs | Sems 5: 30 hrs |
|           | 1       | 1       | Total:        | Total:         |
|           |         |         | 75hrs         | 70 hrs         |
| Elective  | 1 hour  | -       |               |                |
| Course    | Sems 3: | Sems 3: | Sems 3:       | Sems 3:        |
|           | -       | -       | -             | -              |
|           | Sems 4: | Sems 4: | Sems 4:       | Sems 4:        |
|           | -       | -       | -             | -              |
|           | Sems 5: | Sems 5: | Sems 5:       | Sems 5:        |
|           | 1       | -       | 15 hrs        | -              |
|           |         |         | Total:        | Total:         |
|           |         |         | 15 hrs        | -              |

## Programme–Courses ILOs Matrix

Programme ILOs are enlisted in the first row of the table (by their code number: a1, a2.....etc), then the course titles or codes are enlisted in first column, and an "x" mark is inserted where the respective course contributes to the achievement of the programme ILOs in question.

P.S. All courses` specifications are attached in [Appendix III](#).

| Course<br>Title/Code                                  | a1  | a2 | a3 | a4 | a5 | a6 | a7 | a8 | a9 | a10 | a11 | a12 | a13 | a14 | a15 | a16 | a17 | a18 | i1 | i2 | i3 | I4 | I5 | I6 | I7 | I8 | I9 | I10 |
|---|---|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|-----|
|   | Anatomy and Embryology of the eye OPHT501 | √  | √  |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |    | √  |    |    |    |    |    |    |    |     |
| Physiology of the Eye OPHT503                         |   |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     | √   | √   |    |    |    |    |    |    |    |    |    | √   |
| Pathology and Microbiology OPHT 505& 507              |   |    |    |    |    |    |    |    |    |     |     |     |     |     | √   | √   |     |     |    |    |    |    |    |    |    |    | √  |     |
| Basic of Optics OPHT522 BO                            |   |    | √  | √  |    |    |    |    |    |     |     |     |     |     |     |     |     |     |    | √  |    |    |    |    |    |    |    |     |
| Basic of internal medicine related to the eye OPHT510 |   |    |    |    | √  | √  |    |    |    |     |     |     |     |     |     |     |     |     |    |    | √  |    |    |    |    |    |    |     |
| Neurology related to the eye OPHT512                  |   |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |     |
| Basic of surgery related to the eye OPHT520           |   |    |    |    |    |    | √  | √  |    |     |     |     |     |     |     |     |     |     |    |    |    | √  |    |    |    |    |    |     |
| Ophthalmic Medicine OPHT 522 OM                       |   |    |    |    |    |    |    |    |    |     | √   | √   |     |     |     |     |     |     |    |    |    |    |    | √  | √  |    |    |     |
| Ophthalmic Surgery OPHT 522 OS                        |   |    |    |    |    |    |    |    |    |     |     | √   | √   |     |     |     |     |     |    |    |    |    |    |    |    |    | √  |     |
| Ocular pathology OPHT 522 OP                          |   |    |    |    |    |    |    |    | √  | √   |     |     |     |     |     |     |     |     |    |    |    |    | √  |    |    |    |    |     |

| Course<br>Title/Code                                  | p1  | p2 | p3 | p4 | P5 | P6 | P7 | P8 | P9 | P10 | P11 | P12 | P13 | t1 | t2 | t3 | T4 | t5 | t6 |
|---|---|----|----|----|----|----|----|----|----|-----|-----|-----|-----|----|----|----|----|----|----|
|   | Anatomy and Embryology of the eye OPHT501 | √  |    |    |    |    |    |    |    |     |     |     |     |    | √  | √  | √  |    |    |
| Physiology of the Eye OPHT503                         |   |    |    |    |    |    |    |    |    |     |     |     | √   | √  | √  | √  | √  | √  | √  |
| Pathology and Microbiology OPHT 505& 507              |   |    |    |    |    |    |    |    |    |     |     | √   |     | √  | √  | √  | √  | √  | √  |
| Basic of Optics OPHT522 BO                            | √   | √  |    |    |    |    |    |    |    |     |     |     |     | √  | √  | √  | √  | √  | √  |
| Basic of internal medicine related to the eye OPHT510 |   |    |    | √  |    |    |    |    |    |     |     |     |     |    |    | √  | √  | √  | √  |
| Neurology related to the eye OPHT512                  |   |    |    |    |    |    |    |    |    |     |     |     |     |    |    |    |    |    |    |
| Basic of surgery related to the eye OPHT520           |   |    |    |    | √  | √  |    |    |    |     |     |     |     | √  | √  | √  | √  | √  | √  |
| Ophthalmic Medicine OPHT 522 OM                       |   |    |    |    |    |    |    |    | √  | √   |     |     |     | √  | √  | √  | √  | √  | √  |
| Ophthalmic Surgery OPHT 522 OS                        |   |    |    |    |    |    |    |    |    |     | √   |     |     | √  | √  | √  | √  | √  | √  |
| Ocular pathology OPHT 522 OP                          |   |    |    |    |    |    | √  | √  |    |     |     |     |     | √  | √  | √  | √  | √  | √  |

(6) Programme admission requirements.

:

**•General requirements:**

By laws regulating post graduate Studies.

**•Specific requirements :**

N/A

(7) Regulations for progression and programme completion.

First part :

- Minimally accepted attendance is 70%.

Second part

**1- Attendance Criteria:**

- Minimally accepted attendance in each course is 70%.

**2-Log book :**

-The log should be fulfilled and signed by Head of the department.

**3-Practical work:**

-lab rotation according to the schedule determined by the supervisors

**4- seminars:**

-at least 2 seminars in topics determined by the supervisors must be prepared and presented by the candidate.

(8) Evaluation of Programme's intended learning outcomes (ILOs):

Assessment methods:

8.1. Written exam for assessment of knowledge and intellectual skills.

8.2. Clinical exam for assessment of intellectual and practical skills

8.3. Oral exam for assessment of knowledge and intellectual skills.

8.4 MCQ exam for continuous assessment of knowledge and intellectual skills.

Assessment schedule:

- MCQ exam at the end of each semester.
- Final exam at 6th month from admission to Master degree with total of 240 marks .

Percentage of each Assessment to the total mark.

نظام الامتحان وتوزيع الدرجات (ماجستير طب وجراحة العيون)

امتحان الجزء الأول

| إجمالي | الدرجة        |     |     | الاختبار | المقرر  |
|--------|---------------|-----|-----|----------|---|
|        | إكلينيكي      | شفي | MCQ |          |   |
| ٣٠٠    |               | ١٢٠ | ٣٦  | ١٤٤      | اختبار تحريري مدته ثلاث ساعات + اختبار شفهي                   |
| ٣٠٠    | ٦٠            | ٦٠  | ٣٦  | ١٤٤      | اختبار تحريري مدته ثلاث ساعات + اختبار شفهي + اختبار عملي     |
| ٣٠٠    |               | ١٢٠ | ٣٦  | ١٤٤      | اختبار تحريري مدته ثلاث ساعات + اختبار شفهي                   |
| ٣٠٠    | ٦٠            | ٦٠  | ٣٦  | ١٤٤      | اختبار تحريري مدته ثلاث ساعات + اختبار شفهي + اختبار إكلينيكي |
| ١٥٠    | ٣٠            | ٣٠  | ١٨  | ٧٢       | اختبار تحريري مدته ساعة ونصف + اختبار شفهي + اختبار إكلينيكي  |
| ١٥٠    | ٣٠            | ٣٠  | ١٨  | ٧٢       | اختبار تحريري مدته ساعة ونصف + اختبار شفهي + اختبار إكلينيكي  |
| ٣٠٠    |               | ١٢٠ | ٣٦  | ١٤٤      | اختبار تحريري مدته ثلاث ساعات + اختبار شفهي                   |
| ١٨٠٠   | إجمالي الدرجة |     |     |          |   |

الامتحان النهائي الشامل

| إجمالي | الدرجة        |          |     | الاختبار | المقرر   |
|--------|---------------|----------|-----|----------|--|
|        | عملي          | إكلينيكي | MCQ |          |  |
| ٤٠٠    |               | ١٠٠      | ٤٠  | ١٦٠      | اختبار تحريري مدته ثلاث ساعات + اختبار شفهي + اختبار إكلينيكي                  |
| ٤٠٠    | ١٠٠           |          | ٤٠  | ١٦٠      | اختبار تحريري مدته ثلاث ساعات + اختبار شفهي + اختبار عملي (عملية جراحية صغيرة) |
| ٤٠٠    | ١٠٠           |          | ٤٠  | ١٦٠      | اختبار تحريري مدته ثلاث ساعات + اختبار شفهي + اختبار عملي                      |
| ٢٠     |               |          | ٤   | ١٦       | اختبار تحريري مدته نصف ساعة  |
| ١٢٢٠   | إجمالي الدرجة |          |     |          |  |

### **Programme –Aims and ILOs Matrix**

Programme ILOs are enlisted in the first row of the table (by their code number: a1, a2.....etc), then aims of the programme are enlisted in first column, and an "√" mark is inserted where the respective course contributes to the achievement of the programme ILOs in question.

P.S. All courses' specifications are attached in [Appendix III](#).

| Programme aims  | a1  | a2 | a3 | a4 | a5 | a6 | a7 | a8 | a9 | a10 | a11 | a12 | a13 | a14 |
|---|---|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|
|   | 1-The programme will provide trainee ophthalmologists with an in <b>depth knowledge</b> of the theory behind the practice of ophthalmology. | √  | √  | √  | √  | √  | √  | √  | √  | √   | √   | √   | √   | √   |
| 2- The programme will assess candidates <b>understanding</b> using the problem based learning questions in each module. |   | √  | √  | √  | √  | √  | √  | √  | √  | √   |     | √   | √   | √   |
| 3- The programme will enable the candidate <b>practical skills</b> which required to achieve in their base hospital.    |   |    |    |    |    |    |    |    |    |     |     |     |     |     |

| Programme aims  | A15   | A16 | A17 | A18 |
|---|---|-----|-----|-----|
|   | 1-The programme will provide trainee ophthalmologists with an in <b>depth knowledge</b> of the theory behind the practice of ophthalmology. | √   | √   | √   |
| 2- The programme will assess candidates <b>understanding</b> using the problem based learning questions |   | √   | √   | √   |

|  |  |  |  |  |
|--|--|--|--|--|
| in each module.  |  |  |  |  |
| 3- The programme will enable the candidate <b>practical skills</b> which required to achieve in their base hospital. |  |  |  |  |

| Programme aims  | I1  | I2 | I3 | I4 | I5 | I6 | I7 | I8 | I9 | I10 |
|---|---|----|----|----|----|----|----|----|----|-----|
|   | 1-The programme will provide trainee ophthalmologists with an in <b>depth knowledge</b> of the theory behind the practice of ophthalmology. | √  | √  | √  | √  | √  | √  | √  | √  | √   |
| 2- The programme will assess candidates <b>understanding</b> using the problem based learning questions in each module. |   | √  | √  | √  | √  | √  | √  | √  | √  | √   |
| 3- The programme will enable the candidate <b>practical skills</b> which required to achieve in their base hospital.    |   |    |    |    |    |    |    |    |    |     |

| Programme aims | P1                   | P2 | P3 | P4 | P5 | P6 | P7 | P8 | P9 | P10 | P11 | P12 | P13 |
|----------------|----------------------|----|----|----|----|----|----|----|----|-----|-----|-----|-----|
|                | 1-The programme will |    |    |    |    |    |    |    |    |     |     |     |     |

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| provide trainee ophthalmologists with an in <b>depth knowledge</b> of the theory behind the practice of ophthalmology.  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 2- The programme will assess candidates <b>understanding</b> using the problem based learning questions in each module. | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| 3- The programme will enable the candidate <b>practical skills</b> which required to achieve in their base hospital.    | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |

| Programme aims  |    |    |    |    |    |    |
|---|----|----|----|----|----|----|
|   | T1 | T2 | T3 | T4 | T5 | T6 |
| 1-The programme will provide trainee ophthalmologists with an in <b>depth knowledge</b> of the theory behind the practice of ophthalmology. |    |    |    |    |    |    |
| 2- The programme will assess candidates <b>understanding</b> using the problem based learning questions in each module.                     |    |    |    |    |    |    |
| 3- The programme will enable the candidate <b>practical skills</b> which required to achieve in their base hospital.                        | √  | √  | √  | √  | √  | √  |

### programme-Methods of assessment ILOs Matrix

Programme ILOs are enlisted in the first row of the table (by their code number: a1, a2.....etc), then the programme-Methods of assessment are enlisted in first column, and an "x" mark is inserted where the respective course contributes to the achievement of the programme ILOs in question.

P.S. All courses` specifications are attached in [Appendix III](#).

| programme-<br>Methods of<br>assessment                                       | a1   | a2 | a3 | a4 | a5 | a6 | a7 | a8 | a9 | a10 | a11 | a12 | a13 | a14 |
|--|--|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|
|  | 8.1: Written exam for assessment of knowledge intellectual skills. | √  | √  | √  | √  | √  | √  | √  | √  | √   | √   | √   | √   | √   |
| 8.2: Clinical exam for assessment of intellectual and practical skills       |  |    |    |    |    |    |    |    |    |     |     |     |     |     |
| 8.3: Oral exam for assessment of knowledge and intellectual skills.          | √  | √  | √  | √  | √  | √  | √  | √  | √  | √   | √   | √   | √   | √   |
| 8.4 MCQ exam for continuous assessment of knowledge and intellectual skills. | √  | √  | √  | √  | √  | √  | √  | √  | √  | √   | √   | √   | √   | √   |

| programme-<br>Methods of<br>assessment | A15  | A16 | A17 | A18 |
|--|--|-----|-----|-----|
|  | 8.1: Written exam for assessment of knowledge intellectual skills. | √   | √   | √   |

|   |   |   |   |   |
|---|---|---|---|---|
|   |   |   |   |   |
| <b>8.2: Clinical exam for assessment of intellectual and practical skills</b>       |   |   |   |   |
| <b>8.3: Oral exam for assessment of knowledge and intellectual skills.</b>          | √ | √ | √ | √ |
| <b>8.4 MCQ exam for continuous assessment of knowledge and intellectual skills.</b> | √ | √ | √ | √ |

| programme-Methods of assessment   |    |    |    |    |    |    |    |    |    |     |
|---|----|----|----|----|----|----|----|----|----|-----|
|   | I1 | I2 | I3 | I4 | I5 | I6 | I7 | I8 | I9 | I10 |
| <b>8.1: Written exam for assessment of know and intellectual skills.</b>            |    |    |    |    |    |    |    |    |    |     |
| <b>8.2: Clinical exam for assessment of intellectual and practical skills</b>       | √  | √  | √  | √  | √  | √  | √  | √  | √  | √   |
| <b>8.3: Oral exam for assessment of knowledge and intellectual skills.</b>          | √  | √  | √  | √  | √  | √  | √  | √  | √  | √   |
| <b>8.4 MCQ exam for continuous assessment of knowledge and intellectual skills.</b> |    |    | √  | √  |    |    |    |    |    |     |

| programme-Methods of assessment  |    |    |    |    |    |    |    |    |    |     |     |     |     |
|--|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|
|  | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 | P9 | P10 | P11 | P12 | P13 |
| 8.1: Written exam for assessment of know and intellectual skills.            |    |    |    |    |    |    |    |    |    |     | √   | √   | √   |
| 8.2: Clinical exam for assessment of intellectual and practical skills       | √  | √  | √  | √  | √  | √  | √  | √  | √  | √   | √   | √   | √   |
| 8.3: Oral exam for assessment of knowledge and intellectual skills.          | √  | √  | √  | √  | √  | √  | √  | √  | √  | √   | √   | √   | √   |
| 8.4 MCQ exam for continuous assessment of knowledge and intellectual skills. |    |    | √  | √  |    |    |    |    |    |     |     |     |     |

| programme-Methods of assessment  |    |    |    |    |    |    |
|--|----|----|----|----|----|----|
|  | T1 | T2 | T3 | T4 | T5 | T6 |
| 8.1: Written exam for assessment of know and intellectual skills.      |    |    |    |    |    |    |
| 8.2: Clinical exam for assessment of intellectual and practical skills | √  | √  | √  | √  | √  | √  |
| 8.3: Oral exam for assessment of knowledge and intellectual skills.    | √  | √  | √  | √  | √  | √  |
| 8.4 MCQ exam for continuous  |    |    | √  | √  |    |    |

|  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|
| assessment of knowledge and intellectual skills. |  |  |  |  |  |  |
|--|--|--|--|--|--|--|

| Evaluator              | Tools*                                 | Sample size |
|------------------------|--|-------------|
| Internal evaluator (s) | <b><u>Prof Dr Hani Abdelrahman</u></b> |             |
| External Evaluator (s) | <b><u>Prof Dr Mervat Salah</u></b>     |             |

|   |                   |
|---|-------------------|
| We certify that all information required to deliver this programme is contained in the above specification and will be implemented. All course specification for this programme are in place. |                   |
| <b>Programme course coordinator:</b><br>Prof.Dr Adel El layeh   | Signature & date: |