كلية الطب

Faculty of Medicine

MINIA UNIVERSITY

Master (MSc) Program & Courses' Specifications of Audiovestibular medicine

نموذج رقم (13)

Program Specifications for MSc of audiovestibular medicine

2022\2023

University: MINIA

Faculty(s): MEDICINE

Department:

A- Basic Information:

1- Program title: Master Degree in audiovestibular medicine
2- Program type: **Single** √ Double Multiple
3- Department responsible for offering the degree: ENT department (audiovestibular unit)
4- Faculty: Medicine
5- **University:** Minia
6- Program academic director: Head of department, Dr Mohammed Abd Elmotaal
7- **Co-ordinator:** -Principle: Dr Mohamed El-Badry
-Assistant: Dr Rafeek Mohamed Abdelkader
8- Internal evaluator: Dr Mohamed El-Badry
9- External evaluator: Dr Mohamed salama bakr

10-Total number of courses: 1st part : 7 courses
2nd part : 3 courses total 10 courses

12. Coordinator:

Dr. Amira Mohammed Fawzy. Lecturer of Audio-vestibular medicine. Faculty of Medicine .Minia University

13. External evaluators: Dr Mohammed Salama Bakr Prof. of audio-vestibular medicine Assiut University.

14. internal evaluators:

Dr. Mohammed Mohammed EL-Badry. Prof. of Audio-vestibular medicine. Faculty of Medicine. Minia University

15. Programme management team:

Dr. Reham Gamal Lecturer of Audio-vestibular medicine. Faculty of Medicine. Minia University

Dr.Dalia Mohammed Fahim Lecturer of Audio-vestibular medicine. Faculty of Medicine. Minia University

B- Professional Information:

1- Program aims:

Graduate of Master Degree in audiovestibular medicine the candidate should be able to:

1.1. Demonstrate competency in application of principles and approaches of scientific research and be able to use its different tools.

2.1.Apply and use the scientific approach in the field of professional practice in **audiovestibular medicine**

3.1. Apply the specialized knowledge of the specialty and be able to integrate such information with related subjects/fields during professional practice in **audiovestibular medicine.**

4.1. Demonstrate adequate awareness of the current problems and recent visions in the field of **audiovestibular medicine.**

5.1. Identify and solve problems in **audiovestibular medicine.**

6.1. . Acquire a suitable range of competencies in the area of specialization and use the suitable information technology efficiently to improve the professional practice in **audiovestibular medicine.**

7.1. Demonstrate effective communication skills and be able to work as a team leader

8.1. Take appropriate decisions in different situations during practice

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9.1. Employ & maximize the use of the available resources and ensure keeping them.

10.1 Develop active participation in assessment of community needs and problems' solving in view of the continuous changes.

11.1. Demonstrate an appropriate attitude and manners that reflect the credibility and stickiness to the roles and standards of code of practice.

12.1. Acquire skills of academic and professional self-development and capability of continuous learning.

2- Intended learning outcomes (ILOs)

2.1. (A) Knowledge and understanding:

By the end of the study of master program in **audiovestibular medicine** the candidate should be able to:

A.1. Identify theories and basics related to the learning field as well as in related areas

A.2. Identify mutual influence between professional practice in pathology and its impact on the

environment

A.3. Discuss main scientific advances & developments in **audiovestibular medicine.**

A.4.Identify Ethical and medico-legal principles of professional practice in **audiovestibular medicine.**

A.5.Enumerate Principles and the basics of quality in professional practice in **audiovestibular medicine.**

A.6. Identify basics and ethics of scientific research

A.7. Describe the patho-physiological correlates of audio-vestibular system related to different disorders.

A.8. Identify the basic and updated knowledge of investigative tools necessary for the diagnosis of audio-vestibular disorders.

A.9. Discuss the concept & value of hearing screening for neonates, infants & personnel exposed to noise.

A.10. Describe the appropriate rehabilitation programs for hearing & balance problems.

A.11 Delivering basic and updated theoretical knowledge of audio-vestibular manifestations of COVID-19

2.2. (B)Intellectual skills

By the end of master program in **audiovestibular medicine** the candidate should be able to:

B1. Analyze and evaluate relevant information and correlate them to solve problems in the area of **audiovestibular medicine.**

B2. Solve special problems even in absence of some data

B3. Combine different knowledge to solve problems in **audiovestibular medicine** professionaly

B4. Conduct a scientific research study and / or write a scientific systemic study on a research problem

B5. Assess risk in professional practices in the area of **audiovestibular medicine**

B6. Plan for the development of professional performance in the area of **audiovestibular medicine**

B7. Be able of decision-making in a variety of professional situations

B8.Select appropriate tests and investigations for accurate diagnosis of different auditory and balance disorders and apply dysfunction to its physiologic correlates.

B9.Plan & apply comprehensive diagnostic and treatment services in audio-vestibular and communicative disorders.

b.10.Recognize clinical diagnosis of audio- vestibular disorder of COVID-19

2.3. Skills:

2.3.1. (C)Professional and practical skills

By the end of the study of master program in **audiovestibular medicine** the candidate should be able to:

C.1. Master the basic & modern professional skills in **audiovestibular medicine**

C.2. .Write and evaluate/comment on professional reports

C.3. Evaluate & demonstrate relevant skills of existing methods and tools in the area of **audiovestibular medicine**

C.4.Perform efficiently calibration & trouble-shooting for diagnostic equipment, hearing aids & cochlear implant devices.

C.5.Take a focused medical history with proper analysis.

C.6..Examine properly and systematically the ear, central auditory pathways, vestibular system and its central vestibular connections with an exact follow of the standard rules

C.7.Interpret the patient data (history and examination) in an organized and informative manner.

C.8.Put a diagnosis and differential diagnosis of different cases.

C.9.Diagnosis of specific parts in the audio-vestibular pathway possibly affected by COVID-19

2.3.2. (D) General and transferable skills

By the end of the study of master program in **audiovestibular medicine** the candidate should be able to:

D1. Demonstrate effective communication skills in its different forms

D2. Use information technology to serve the professional practice

D3. Demonstrate skills of self-assessment and identify personal learning needs

D4. Use different sources to get information and knowledge

D5. Develop rules and indicators for appraisal of others

D6. Work in a team, and demonstrate leadership of teams in various professional contexts

D7. Manage time efficiently

D8. Demonstrate skills of self-learning and continuous learning

D9. Gain communication skills with paramedical personel, patients and their care givers, juniors, professors, peers…..

D10. Master computer skills in research, data base filing and preparation of presentation.

D11. Prepare & share in scientific presentations & worhshops.

D12. Work in a team

3- Program Academic Reference Standards

- Minia faculty of medicine adopted the general national academic reference standards provided by the national authority for quality assurance and accreditation of education (NAQAAE) for all postgraduate programs. (Date and NO. of faculty council approval). **{Annex 1}.**
- Then Audio-vestibular department has developed the academic standards (ARS) for Master (MSc) program in Audio-vestibular medicine(Dates and Nos. of department and faculty council approvals). **{Annex 2}.**

4. Program External References

Not applicaple

5. Program Structure and Contents:

5. A. Program duration: (3 years).

5. B. Program structure:

Course Title		Total No. of hours	No. of hours /week			Program ILOs Covered
			Lect.	clinical	field	
FIRST PART (Level of course):						
1. Acoustics	HE 200	41 hours	2 hrs/wk			**A.1, A.2, A.3, A.5, A.7 B.1, B.3**
2. Physiology	HE 200	41 hours	2 hrs/wk			**A.1, A.3, A.5, A.7 B.1, B.2, B.3**
3. Anatomy	HE 200	15 hours	1 hr/wk			**A.1 ,A.5, A.7 B.1, B.3**
4. Genetics	HE 200	15 hours	1 hr/wk			**A.1, A.5, A.7 B.1**
5. General medicine & neurolog	HE 200	15 hours	1 hr/wk			**A.1, A.2, A.5, A.7 B.1, B.2, B.3, B.6**

6. Statistics	HE 200	30 hours	2 hrs/wk			**A.1, A.6 B.4, B.5**
7. Ethics	HE 200		2hrs/wk			
Training programs and workshops, field visits, seminars& other scientific activities		Continuous				
SECOND PART (Level of course):						
8. Hearing & Balance assessment & management (1 &2)	HE 200	137.5 hours For (1) &137.5 hours For (2)	3 hrs/wk divided on 1&2	6hrs /wk divided on 1&2	20hrs/wk divided on 1&2	**A.1, A.2, A.3, A.5, A.7, A.8, A.9, B.1, B.2, B.3, B.6, B.7, B.8, B.9, C.1, C.2, C.3, C.4, C.5, C.6, C.7, C.8, C.9, D.1, D.2, D.3, D.4, D.5, D.6, D.7, D.8, D.9, D.10, D.11, D.12**
9. Rehabilitation of hearing & balance and Hearing aids	HE 200	85 hrs	3 hrs /wk	23.5hrs/w	10 hrs/w	**A.1, A.2, A.3, A.5, A.7, A.8, A.9,A.10, B.1, B.2, B.3, B.6, B.7, B.8, B.9, C.1, C.2, C.3, C.4, C.5, C.6, C.7, C.8, C.9, D.1, D.2, D.3, D.4, D.5, D.6, D.7, D.8, D.9, D.10, D.11, D.12**
10. ENT	HE 200	120 hrs	1.5 hrs/wk	1.5 hrs/wk		**A.1, A.2, A.4, A.7, A.8 B.1, B.2, B.3, B.6, B.8 C.1, C.2, C.3, C.4, C.5, C.6,C.7,C.8, C.9, D.1, D.4, D.9**
Training programs and workshops, field visits, seminars& other scientific activities		Continuous				

5. C. Levels of program in credit hours system: Not applicable

5. D. Program courses:

Number of courses: 10

N.B. {Correlations of Program ILOs with courses are present in Annex III}

6- Program admission requirements:

1. General requirements:

A. Candidates should have either:

1. MBBCH degree from any Egyptian faculty of medicine or

2. Equivalent degree from medical schools abroad approved by the ministry of higher education

B. Candidate should complete the house office training year.

C. Follows postgraduate regulatory rules of Minia faculty of medicine.

2. Specific requirements:

A. Candidates graduated from Egyptian universities should "Good Rank" in their final year/cumulative years examination and grade "Good Rank "in pathology course too.

B. Candidate should know how to speak and write English well.

C. Candidate should have computer skills.

7- Regulations for progression and program completion:

Duration of program is 6 semesters (3years), starting from registration till the second part exam; divided to:

First Part: (≥6 months):

- All courses as specified in the internal bylaw
- At least six months after registration should pass before the student can ask for examination in the 1st part
- Two sets of exams: 1st in April — 2nd in October.
- For the student to pass the first part exam, a score of at least 60% in each curriculum is needed(with at least 40% in the written exam).
- Those who fail in one curriculum need to re-exam it only.

Thesis/essay:

- Start after at least 6 month from registration and should be completed, and accepted at least after passing the 1st part examination and at least one month before allowing to enter 2nd part final exam.
- Accepting the thesis is enough to pass this part.

Second Part: (≥24 months=4 semesters):

- Program related specialized Courses.
- Actual work for 36 months as a demonstrator /trainee in the department of pathology.
- The student should pass the 1st part before asking for examination in the 2nd part.
- Two sets of exams: 1st in April— 2nd in October.
- For the student to pass the second part exam, a score of at least 60% in each curriculum is needed (with at least 40% in the written exam).
- Fulfillment of the requirements in each course as described in the template and registered in the **log book** is a prerequisite for candidates to be assessed and undertake part 1 and part 2 examinations; as following:

    a. Training courses
    b. Grand rounds (Only in clinical departments)
    c. Case presentation
    d. Seminars
    e. Thesis discussion
    f. Workshops
    g. Conference attendance
    h. Journal club
    i. Other scientific activities requested by the department

Teaching and learning methods

Methods of Teaching & Learning	Intended Learning Outcomes (ILOs)
Lecture	A1, A2, A3, A4, A5, A6, A7, A8, A9,A10,A11 B1, B2, B3, B4, B5, B6, B7, B8, B9, B10,B11,B12,B13,B14

Clinical:
• Case presentation,
• Bedside clinical**;**
  • Practical clinical examination of patient in Audiovestibular unit,
  • Discussion of medical problems in clinical staff round
	C1, C2, C3, C4, C5, C6,C7,C8,C9

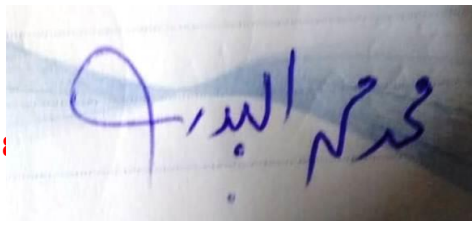
Presentations **Journal club** **Thesis discussion attendance** **Training courses** **Workshops** **Seminars**	D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, D11,D12,D13,D14

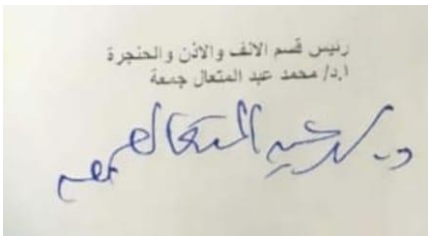
Program coordinator:

- Literature Dr. Amira Mohammed Fawzy

Head of the Audio-vestibular : **Head of Department:**

Prof. Dr. Mohammed Mohammed Elbadry Prof. Dr. Mohammed Abd-Elmotaal



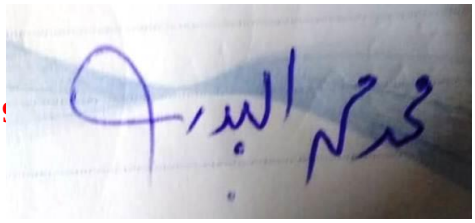


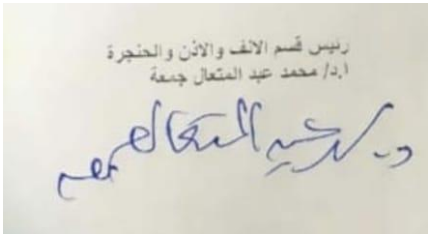
Method of assessment	**The assessed ILOs**
1. Research (Thesis)	**a.** Knowledge & understanding, **b.** Intellectual skills **c.** Professional & practical skills **d.** General & transferable skills
2. Written Exams: • Short essay • MCQs • Complete • True or false and correct the wrong • Commentary	**a.** Knowledge & understanding **b.** Intellectual skills

• Problem solving	
3. Practical/Clinical Exams	**a.** Knowledge & understanding **b.** Intellectual skills **c.** Professional & practical skills
4. Seminars, presentations, assignments	**a.** Knowledge & understanding, **b.** Intellectual skills **c.** Professional & practical skills **d.** General & transferable skills
5. Oral Exams	**a.** knowledge & understanding **b.** Intellectual skills **c.** General & transferable skills
6. Others (Please specify)	

Head of the Audio-vestibular : **Head of Department:**

Prof. Dr. Mohammed Mohammed Elbadry Prof. Dr. Mohammed Abd-Elmotaal





Evaluator (By whom)	**Method/tool**	**Sample**
1. Senior students (Students of final years)	Questionnaires	1
2. Graduates (Alumni)	Questionnaires	2
3. Stakeholders	Meeting Questionnaires	1
4. External & Internal evaluators and external examiners	Reports	2

5. Quality Assurance Unit	Reports Questionnaires Site visits	1

- **Program Coordinators:**
- Dr.rafek mohamed abdelkader
  Dr Amira Mohamed fawzy
  Head of Department:Dr. Montaser Abd-Elsalam
  Date of program specifications 1st approval by department council: 18/9/2009
  Date of last update & approval by department council: 6-3-2023

MATRIX I: Comparison between National Academic Quality Assurance & Accreditation (NAQAAE) General Academic Reference Standards (GARS) and Faculty Academic Reference Standards (ARS)

NAQAAE برامج الماجستير	Faculty Master (MSC) Program
1. مواصفات الخريج: **خريج برنامج الماجستير في أي تخصص يجب أن يكون قادرا على:**	**1. Graduate Attributes:** Graduate of master (MSC) program in **audiovestibular medicine** should be able to:
1.1. إجادة تطبيق أساسيات و منهجيات البحث العلمي واستخدام أدواته المختلفة.	1.1. Demonstrate competency in application of principles and approaches of scientific research and be able to use its different tools.
2.1. تطبيق المنهج التحليلي واستخدامه في مجال التخصص	2.1.Apply and use the scientific approach in the field of professional practice in **audiovestibular medicine.**
3.1. تطبيق المعارف المتخصصة و دمجها مع المعارف ذات العلاقة في ممارسته المهنية.	3.1. Apply the specialized knowledge of the specialty and be able to integrate such information with related subjects/fields during professional practice in **audiovestibular medicine**.
4.1. إظهار وعيا بالمشاكل الجارية و الرؤى الحديثة في مجال التخصص.	4.1. Demonstrate adequate awareness of the current problems and recent visions in the field of **audiovestibular medicine.**

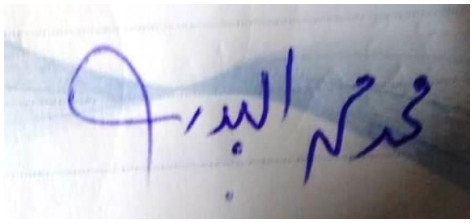
5.1. تحديد المشكلات المهنية و إيجاد حلولا لها.	5.1. Identify and solve problems in **Audiovestibular medicine.**
6.1. إتقان نطاق مناسب من المهارات المهنية المتخصصة واستخدام الوسائل التكنولوجية المناسبة بما يخدم ممارسته المهنية.	6.1. Acquire a suitable range of competencies in the area of specialization and use the suitable information technology efficiently to improve the professional practice in **audiovestibular medicine**.
7.1. لتواصل بفاعلية و القدرة على قيادة فرق العمل.	7.1. Demonstrate effective communication skills and be able to work as a team leader
8.1. اتخاذ القرار في سياقات مهنية مختلفة.	8.1. Take appropriate decisions in different situations during practice.
9.1. توظيف الموارد المتاحة بما يحقق أعلي استفادة و الحفاظ عليها	9.1. Employ & maximize the use of the available resources and ensure keeping them.
10.1. إظهار الوعي بدوره في تنمية المجتمع و الحفاظ على البيئة في ضوء المتغيرات.	10.1. Develop active participation in assessment of community needs and problems' solving in view of the continuous changes.
11.1. التصرف بما يعكس الالتزام بالنزاهة و المصداقية و الالتزام بقواعد المهنة.	11.1. Demonstrate an appropriate attitude and manners that reflect the credibility and stickiness to the roles and standards of code of practice.
12.1. تنمية ذاته أكاديميا و مهنيا و قادرا علي التعلم المستمر.	12.1. Acquire skills of academic and professional self-development and capability of continuous learning.
2. المعايير القياسية العامة : **NAQAAE General Academic Reference Standards "GARS" for Master Programs**	**2. Faculty Academic Reference Standards (ARS)for Master Program**
2.1. المعرفة والفهم: **بانتهاء دراسة برنامج الماجستير يجب أن يكون الخريج قادرا علي الفهم والدراية بكل من:**	**2.1. Knowledge & Understanding:** Upon completion of **the Master Program in audiovestibular medicine**, the graduate should have sufficient knowledge and understanding of:
2.1.1. النظريات والأساسيات والحديث من المعارف في مجال التخصص والمجالات ذات	2.1.1.Theories and basics related to the learning field as well as in related areas

العلاقة	
2.1.2. التأثير المتبادل بين الممارسة المهنية وانعكاسها علي البيئة	2.1.2.Mutual influence between professional practice in pathology and its impact on the environment
2.1.3. التطورات العلمية في مجال التخصص	2.1.3. Main scientific advances & developments in **audiovestibular medicine.**
2.1.4. المبادئ الأخلاقية والقانونية للممارسة المهنية في مجال التخصص	2.1.4. Ethical and medico-legal principles of professional practice in **audiovestibular medficine.**
2.1.5. مبادئ وأساسيات الجودة في الممارسة المهنية في مجال التخصص	2.1.5. Principles and the basics of quality in professional practice in **audiovestibular medicine.**
2.1.6. أساسيات وأخلاقيات البحث العلمي	2.1.6.Basics and ethics of scientific research
2.2. المهارات الذهنية: **بانتهاء دراسة برنامج الدكتوراه يجب أن يكون الخريج قادرا على:**	**2.2. Intellectual Skills:** Upon completion of the master program of **audiovestibular medicine**, the graduate should be able to:
2.2.1.تحليل وتقييم المعلومات في مجال التخصص والقياس عليها لحل المشاكل	2.2.1. Analyze and evaluate relevant information and correlate them to solve problems in the area of **audiovestibular medicine.**
2.2.2. حل المشاكل المتخصصة مع عدم توافر بعض المعطيات	2.2.2.Solve special problems even in absence of some data
2.2.3الربط بين المعارف المختلفة لحل المشاكل المهنية	2.2.3.Correlate different knowledge to solve problems in **audiovestibular medicine** professionaly
2.2.4. إجراء دراسة بحثية و/أو كتابة دراسة علمية منهجية حول مشكلة بحثية	2.2.4.Conduct a scientific research study and / or write a scientific systemic study on a research problem
2.2.5. تقييم المخاطر في الممارسات المهنية في مجال التخصص	2.2.5.Assess risk in professional practices in the area of **audiovestibular medicine.**
2.2.6. التخطيط لتطوير الأداء في مجال التخصص	2.2.6.Plan for the development of professional performance in the area of **audiovestibular medicine.**
2.2.7. اتخاذ القرارات المهنية في سياقات مهنية	2.2.7.Be able of decision-making in a variety of professional situations

متنوعة.	
3.2. المهارات المهنية: **بانتهاء دراسة برنامج الماجستير يجب أن يكون الخريج قادرا على:**	**3.2. Professional Skills:** Upon completion of the master program of **audiovestibular medicine**, the graduate must be able to:
3.2.1.إتقان المهارات المهنية الأساسية والحديثة في مجال التخصص.	3.2.1.Master the basic & modern professional skills in **audiovestibular medicine**.
2.٣,٢كتابة و تقييم التقارير المهنية.	3.2.2.Write and evaluate/comment on professional reports
٣,٣,3تقييم الطرق والأدوات القائمة في مجال التخصص	3.2.3.Evaluate & demonstrate relevant skills of existing methods and tools in the area of **audiovestibular medicine.**
4.2. المهارات العامة والمنتقلة: **بانتهاء دراسة برنامج الماجستير يجب أن يكون الخريج قادرا على:**	4.2. **General and transferable skills** Upon completion of the master program of **audiovestibular medicine**, the graduate should be able to:
4.2.1. التواصل الفعال بأنواعه المختلفة	4.2.1.Demonstrate effective communication skills in its different forms
4.2.2. استخدام تكنولوجيا المعلومات بما يخدم الممارسة المهنية	4.2.2.Use information technology to serve the professional practice
4.2.3. لتقييم الذاتي وتحديد احتياجاته التعلمية الشخصية	4.2.3.Demonstrate skills of self-assessment and identify personal learning needs
4.2.4. استخدام المصادر المختلفة للحصول على المعلومات والمعارف	4.2.4.Use different sources to get information and knowledge
4.3.5. وضع قواعد ومؤشرات تقييم أداء الآخرين	4.2.5.Develop rules and indicators for appraisal of others
4.2.6. العمل في فريق، وقيادة فرق في سياقات مهنية مختلفة	4.2.6.Work in a team, and demonstrate leadership of teams in various professional contexts
4.2.7. إدارة الوقت بكفاءة	4.2.7.Manage time efficiently
4.2.8.التعلم الذاتي والمستمر	4.2.8.Demonstrate skills of self-learning and continuous learning

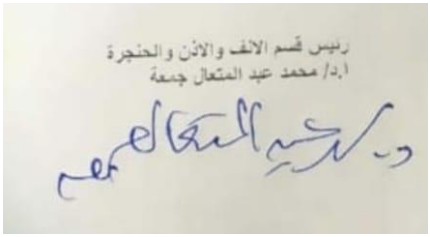
Head of the Audio-vestibular :

Prof. Dr. Mohammed Mohammed Elbadry



Head of Department:

Prof. Dr. Mohammed Abd-Elmotaal



MATRIX II: ARS VS. MSc PROGRAM of audiovestibular medicine

NAQAAE برامج الماجستير	Faculty A R S	MSc Program of audiovestibular medicine ILOs
1. مواصفات الخريج: **خريج برنامج الماجستير في أي تخصص يجب أن يكون قادرا على:**	**1. Graduate Attributes** Graduate of Master (MSc) program in **audiovestibular medicine** should be able to:	**1. Program Aims** Graduate of Master (MSc) program in **audiovestibular medicine** should be able to:
1.1. إجادة تطبيق أساسيات و منهجيات البحث العلمي واستخدام أدواته المختلفة.	1.1. Demonstrate competency in application of principles and approaches of scientific research and be able to use its different tools.	1.1. . Demonstrate competency in application of principles and approaches of scientific research and be able to use its different tools.
2.1. تطبيق المنهج التحليلي واستخدامه في مجال التخصص	1.2. Apply and use the scientific approach in the field of professional practice in.**audiovestibular medicine.**	1.2. . Apply and use the scientific approach in the field of professional practice in **audiovestibular medicine.**
3.1. تطبيق المعارف المتخصصة و دمجها مع المعارف ذات العلاقة في ممارسته المهنية.	1.3.Apply the specialized knowledge of the specialty and be able to integrate such information with related subjects/fields during professional practice	1.3. .Apply the specialized knowledge of the specialty and be able to integrate such information with related subjects/fields during professional practice
4.1. إظهار وعيا بالمشاكل الجارية و الرؤى الحديثة في مجال التخصص.	1.4. Demonstrate adequate awareness of the current problems and recent visions in the field of **audiovestibular medicine.**	1.4. . Demonstrate adequate awareness of the current problems and recent visions in the field of **audiovestibular medicine.**
5.1. تحديد المشكلات المهنية و إيجاد حلولا لها.	1.5. Identify and solve problems in **audiovestibular medicine**.	1.5. . Identify and solve problems in **audiovestibular medicine**.
6.1. إتقان نطاق مناسب من المهارات المهنية المتخصصة واستخدام الوسائل التكنولوجية المناسبة بما يخدم ممارسته المهنية.	1.6. Acquire a suitable range of competencies in the area of specialization and use the suitable information technology efficiently to improve the professional practice.	1.6. . Acquire a suitable range of competencies in the area of specialization and use the suitable information technology efficiently to improve the professional practice.
7.1. لتواصل بفاعلية و القدرة على قيادة فرق العمل.	1.7. Demonstrate effective communication skills and be able to work as a team leader	1.7. Demonstrate effective communication skills and be able to work as a team leader
8.1. اتخاذ القرار في سياقات	1.8. Take appropriate decisions in	1.8. Take appropriate decisions in

مهنية مختلفة.	different situations during the professional practice.	different situations during the professional practice.
9.1. توظيف الموارد المتاحة بما يحقق أعلي استفادة و الحفاظ عليها	1.9.. Employ & maximize the use of the available resources and ensure keeping them.	1.9. .. Employ & maximize the use of the available resources and ensure keeping them.
10.1. إظهار الوعي بدوره في تنمية المجتمع و الحفاظ على البيئة في ضوء المتغيرات.	1.10. Develop active participation in assessment of community needs and problems' solving in view of the continuous changes.	1.10. Develop active participation in assessment of community needs and problems' solving in view of the continuous changes.
11.1. التصرف بما يعكس الالتزام بالنزاهة و المصداقية و الالتزام بقواعد المهنة.	1.11. Demonstrate an appropriate attitude and manners that reflect the credibility and stickiness to the roles and standards of code of practice.	1.11. Demonstrate an appropriate attitude and manners that reflect the credibility and stickiness to the roles and standards of code of practice.
12.1. تنمية ذاته أكاديميا و مهنيا و قادرا علي التعلم المستمر.	1.12. Acquire skills of academic and professional self-development and capability of continuous learning.	1.12. Acquire skills of academic and professional self-development and capability of continuous learning.
2. المعايير القياسية العامة : **NAQAAE General Academic Reference Standards "GARS" for Master Programs**	**2. Faculty Academic Reference Standards**	**2. Intended Learning Outcomes of MSc program in audiovestibular medicine.**
2.1. المعرفة والفهم: **بانتهاء دراسة برنامج الماجستير يجب أن يكون الخريج قادرا علي الفهم والدراية بكل من:**	**2.1. Knowledge and Understanding** Upon completion of the doctorate Program (MSc) in **audiovestibular medicine** the graduate should have sufficient knowledge and understanding of:	**2.1.Knowledge and Understanding** Upon completion of the doctorate Program (MSc) in **audiovestibular medicine** the graduate should have be able to:
2.1.1. النظريات والأساسيات والحديث من المعارف في مجال التخصص والمجالات ذات العلاقة	2.1.1.Outline theories and basics related to the learning field as well as in related areas	a.1. Outline theories and basics related to the learning field as well as in related areas
2.1.2. التأثير المتبادل بين الممارسة المهنية وانعكاسها علي البيئة	2.1.2.Identify mutual influence between professional practice in **audiovestibular medicine** and its impact on the environment	a.7. Identify mutual influence between professional practice in **audiovestibular medicine** and its impact on the environment

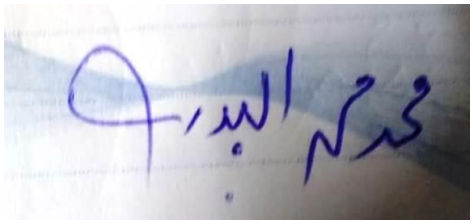
2.1.3. التطورات العلمية في مجال التخصص	2.1.3.Outline main scientific advances & developments in **audiovestibular medicine**	a.3. Outline main scientific advances & developments in **audiovestibular medicine**
2.1.4. المبادئ الأخلاقية والقانونية للممارسة المهنية في مجال التخصص	2.1.4.Identify ethical and medico-legal principles of professional practice in **audiovestibular medicine**	a.4. Identify ethical and medico-legal principles of professional practice in **audiovestibular medicine**
2.1.5. مبادئ وأساسيات الجودة في الممارسة المهنية في مجال التخصص	2.1.5.Identify principles and the basics of quality in professional practice in **audiovestibular medicine**	a.5. .Identify principles and the basics of quality in professional practice in **audiovestibular medicine**
2.1.6. أساسيات وأخلاقيات البحث العلمي	2.1.6.Identify basics and ethics of scientific research	a.6. Identify basics and ethics of scientific research
2.2. المهارات الذهنية 2.3. : بانتهاء دراسة برنامج الدكتوراه يجب أن يكون الخريج قادرا على:	**2.2.Intellectual skills** Upon completion of the doctorate program (MSc) in **audiovestibular medicine** the graduate must be able to::	**2.2. Intellectual skills** Upon completion of the doctorate program (MSc) in **audiovestibular medicine** the graduate must be able to:
2.2.1. تحليل وتقييم المعلومات في مجال التخصص والقياس عليها لحل المشاكل	2.2.1. Analyze and evaluate relevant information and correlate them to solve problems in the area of **audiovestibular medicine.**	b.1. Analyze and evaluate relevant information and correlate them to solve problems in the area **of audiovestibular medicine**
2.2.2. حل المشاكل المتخصصة مع عدم توافر بعض المعطيات	2.2.2.Solve special problems even in absence of some data	b.2. Solve special problems even in absence of some data
2.2.3 الربط بين المعارف المختلفة لحل المشاكل المهنية	2.2.3.Correlate different knowledge to solve problems in pathology professionaly	b.3. Correlate different knowledge to solve problems in pathology professionaly
2.2.4. إجراء دراسة بحثية و/أو كتابة دراسة علمية منهجية حول مشكلة بحثية	2.2.4.Conduct a scientific research study and / or write a scientific systemic study on a research problem	b.4. Conduct a scientific research study and / or write a scientific systemic study on a research problem
2.2.5. تقييم المخاطر في الممارسات المهنية في مجال التخصص	2.2.5.Assess risk in professional practices in the area of **audiovestibular medicine.**	b.5. Assess risk in professional practices in the area of **audiovestibular medicine**
2.2.6. التخطيط لتطوير الأداء في مجال التخصص	2.2.6.Plan for the development of professional performance in the area **of audiovestibular medicine.**	b.6 Plan for the development of professional performance in the area of **audiovestibular medicine.**
2.2.7. اتخاذ القرارات المهنية في سياقات مهنية متنوعة.	2.2.7.Be able of decision-making in a variety of professional situations	b.7. Be able of decision-making in a variety of professional situations

3.2. المهارات المهنية: **بانتهاء دراسة برنامج الماجستير يجب أن يكون الخريج قادرا على:**	**2.4.Professional skills** Upon completion of the doctorate program (MSc) in **audiovestibular medicine**, the graduate must be able to:	**3.2. Skills:** **3.2.1. Professional & Practical skills** Upon completion of the doctorate program (MSc) in **audiovestibular medicine**, the graduate must be able to:
3.2.1.إتقان المهارات المهنية الأساسية والحديثة في مجال التخصص.	2.3.1..Master the basic & modern professional skills in **audiovestibular medicine.**	c.1. Master the basic & modern professional skills **in audiovestibular medicine.**
2.٣,٢كتابة و تقييم التقارير المهنية.	2.3.2.Write and evaluate/comment on professional reports	c.2. Write and evaluate/comment on professional reports
٣,٣,3تقييم الطرق والأدوات القائمة في مجال التخصص	2.3.3.Evaluate & demonstrate relevant skills of existing methods and tools in the area of **audiovestibular medicine.**	c.3. Evaluate & demonstrate relevant skills of existing methods and tools in the area of **audiovestibular medicine.**
4.2. المهارات العامة والمنتقلة: **2.6. بانتهاء دراسة برنامج الماجستير يجب أن يكون الخريج قادرا على:**	**2.5.General & transferable skills** Upon completion of the doctorate program (MSc) in **audiovestibular medicine,** the graduate must be able to:	**3.2.2. General & Transferable Skills** Upon completion of the doctorate program (MSc) in **audiovestibular medicine.,** the graduate must be able to:
4.2.1. التواصل الفعال بأنواعه المختلفة	2.4.1.Demonstrate effective communication skills in its different forms	d.1. Demonstrate effective communication skills in its different forms
4.2.2. استخدام تكنولوجيا المعلومات بما يخدم الممارسة المهنية	2.4.2..Use information technology to serve the professional practice	d.2. Use information technology to serve the professional practice
4.2.3. لتقييم الذاتي وتحديد احتياجاته التعلمية الشخصية	2.4.3.Demonstrate skills of self-assessment and identify personal learning needs	d.3. Demonstrate skills of self-assessment and identify personal learning needs
4.2.4. استخدام المصادر المختلفة للحصول على المعلومات والمعارف	2.4.4..Use different sources to get information and knowledge	d.4. Use different sources to get information and knowledge
4.3.5. وضع قواعد ومؤشرات تقييم أداء الآخرين	2.4.5..Develop rules and indicators for appraisal of others	d.5. Develop rules and indicators for appraisal of others
4.2.6. العمل في فريق، وقيادة فرق في سياقات مهنية مختلفة	2.4.6.Work in a team, and demonstrate leadership of teams in various professional contexts	d.6. Work in a team, and demonstrate leadership of teams in various professional contexts
4.2.7. إدارة الوقت بكفاءة	2.4.7.Manage time efficiently	d.7. Manage time efficiently

4.2.8.التعلم الذاتي والمستمر	2.4.8.Demonstrate skills of self-learning and continuous learning	d.8. Demonstrate skills of self-arning and continuous learning

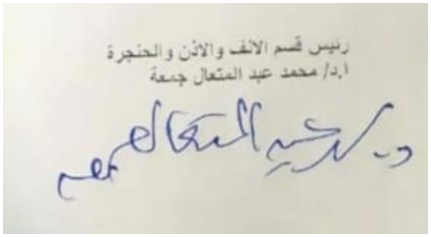
Head of the Audio-vestibular :

Prof. Dr. Mohammed Mohammed Elbadry



Head of Department:

Prof. Dr. Mohammed Abd-Elmotaal



Annex III

نموذج رقم (11ب)

مسمى البرنامج	ماجستير أمراض سمع وأتزان
كود البرنامج	HE 200

جامعة/أكاديمية :جامعة المنيا
كلية / معهد: كلية الطب
قسم:الأنف والأذن والحنجرة (أمراض السمع والأتزان)

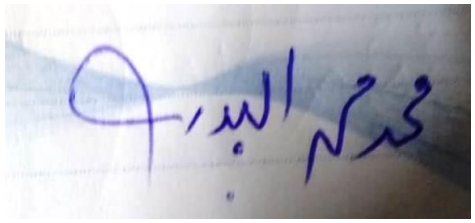
Matrix of Coverage of MSC Program ILOs By Course (III)

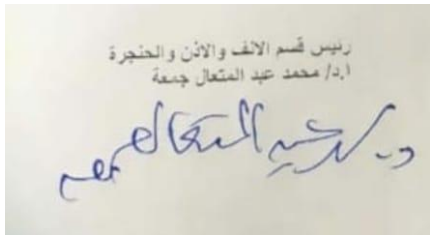
Courses (List of courses in 1st and 2nd parts)	Program Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
1.Acoustics	A.1, A.2, a A.3, A.5, A.7	B.1, B.3		
2.Physiology	A.1, A.3, A.5, A.7	B.1, B.2, B.3		
3. Anatomy	A.1 ,A.5, A.7	B.1, B.3		
4.Genetics	A.1, A.5, A.7	B.1		
5.General medicine & neurology	A.1, A.2, A.5, A.7	B.1, B.2, B.3, B.6		
6.Statistics	A.1, A.6	B.4, B.5		
7.Hearing & Balance assessment & management (1 &2)	A.1, A.2, A.3, A.5, A.7,	b.1, b.2, b.3, b.6, b.7,	C.1, C.2, C.3, C.4, C.5,	D.1, D.2, D.3, D.4, D.5, D.6, D.7, D.8,
	A.8, A.9	b.8, b.9	C.6, C.7, C.8, C.9	D.9, D.10, D.11, D.12

8.Rehabilitation of hearing & balance	**A.1, A.2, A.3, A.5, A.7, A.8, A.9**	**b.1, b.2, b.3, b.6, b.7, b.8, b.9**	**C.1, C.2, C.3, C.4, C.5, C.6, C.7, C.8, C.9**	**D.1, D.2, D.3, D.4, D.5, D.6, D.7, D.8, D.9,D.10, D.11, D.12**
9.Hearing aids	**1.A, Aa.2, A.3, A.5, A.7, A.8, A.9, A.10**	**B.1, B.2, B.3, B.6, B.7, B.8, B.9**	**C.1, C.2, C.3, C.4, C.5, C.6, C.7, C.8, C.9**	**D.1, D.2, D.3, D.4, D.5, D.6, D.7, D.8, D.9, D.10, D.11, D.12**
10.ENT	**A.1, A.2, A.4, A.7, A.8**	**B.1, B.2, B.3, B.6, B.8,**	**C.1, C.2, C.3, C.4, C.5, C.6, C.7, C.8, C.9**	**D.1, D.4, D.9**

Head of the Audio-vestibular : **Head of Department:**

Prof. Dr. Mohammed Mohammed Elbadry Prof. Dr. Mohammed Abd-Elmotaal



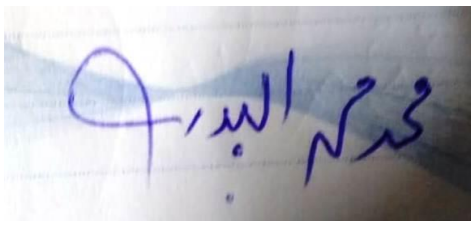


Annex (IV)Matrix of Coverage of MSC Program ILOs By Methods of teaching and learning

Methods of Teaching & Learning	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Lecture	A1,A3,A5	B1,B3,B5,B7,B10	C1,C2,C3,C7,C8	
Practical	A1,A2,A4,A6,A8	B2,B4.B5,B6,B8,B9	C2,C4,C5,C6,C7,C8	
Clinical (Including grand rounds)	A2,A3,A4,A5	B5,B7,B8,B10	C1,C6,C7,C8,C9	
Presentation/seminar	A1,A2,A3,4A,6A,7A,8A	B3,B4,B5,B7,B9	C1,C6,C7,C9	D1,D3,D6,D7
Journal club				

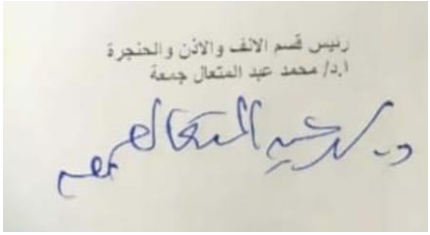
Head of the Audio-vestibular :

Prof. Dr. Mohammed Mohammed Elbadry



Head of Department:

Prof. Dr. Mohammed Abd-Elmotaal

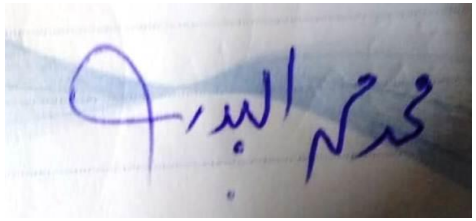


Annex(VI): Matrix of Coverage of MSC Program ILOs By methods of assesment

Methods of Assessment	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Written exam	A1,a2,a3,a6,a8	B1,a3,a6,a8,a9	C1,c3,c4,c7,c9	
Practical exam	A1,a2,a4,a7,a8,a9	B2,b3,b5,b7,b9,b10	C1,c2,c4,c6,c7,c9	
Clinical exam	A1,a2,a4,a7,a8,a9	B3,b4,b5,b8,b9,b10	C1,c2,c3,c4,c6,c7,c8	
Oral Exam	A1,a2,a3,a7	B2,b4,b5,b6,b9	C1,c3,c4,c7,c8	

Head of the Audio-vestibular :

Prof. Dr. Mohammed Mohammed Elbadry



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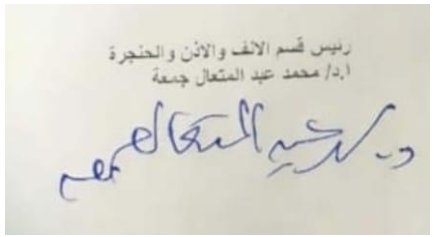


Faculty of medicine

Minia University

Postgraduate studies

master degree in Audio-vestibular medicine

درجة الماجستير في طب السمع والاتزان

Course specification

نموذج رقم (12)

Course Specifications of audiovestibular medicine

2022\2023

University: Minia

Faculty: Medicine

Department: ENT department (audiovestibular unit)

A-Program title:
Medical Master degree in Audio-vestibular medicine.

B-Program type
Multible

C-Faculty
Minia University - Faculty of medicine

D-Department
ENT Department, Audio-vestibular Unit

E-Coordinators
Dr. Mohamed Mohamed El-Badry
Professor of Audio-vestibular medicine, Minia University

F- External Evaluator
Dr. Mohamed Salamah Bakre
Professor of Audiovestibular medicine, Assuit

Professional Information:

A-Course aims:

1. Implementation and reinforcement of the rules of both medical practice and research ethics.
2. Acquisition of basic and updated theoretical knowledge in the field of hearing, balance and communicative disorders.
3. Refining the clinical skills based on a systematic approach to diagnose audio-vestibular disorders and to manage them efficiently and effectively.
4. Refining the clinical skills necessary for early diagnosis and early intervention.
5. Enhancement of self-education abilities and adopting it as a way of continued medical education
6. Understanding the basics of well designed research that aims at the community benefit.

B-Intended learning outcomes (ILOs):

a. Knowledge and understanding:
By the end of this program the student should be able to:

a.1 Understand the patho-physiological correlates of audio-vestibular system related to different disorders.

a.2 Know the basic and updated knowledge of investigative tools necessary for the diagnosis of audio-vestibular disorders.

a.3 Understand the concept & value of hearing screening for neonates, infants & personnel exposed to noise.

a.4 Acquire the skill to select appropriate rehabilitation programs for hearing & balance problems.

b. Intellectual capabilities:

By the end of this program the student should be able to:

b.1 Select appropriate tests and investigations for accurate diagnosis of different auditory and

balance disorders and apply dysfunction to its physiologic correlates.

b.2 Plan & apply comprehensive diagnostic and treatment services in audio-vestibular andcommunicative disorders.

c. Professional and practical skills:
By the end of this program the student should be able to:

c.1 Perform efficiently calibration & trouble-shooting for diagnostic equipment, hearing aids & cochlear implant devices.
c.2 Take a focused medical history with proper analysis.
c.3 Examine properly and systematically the ear, central auditory pathways, vestibular system and
its central vestibular connections with an exact follow of the standard rules

c.4 Interpret the patient data (history and examination) in an organized and informative manner.

c.5 Put a diagnosis and differential diagnosis of different cases.

d-General and transferable skills:

By the end of this program the student should be able to:

d.1 Gain communication skills with paramedical personel, patients and their care givers, juniors, professors, peers.

d.2 Master computer skills in research, data base filing and preparation of presentation.

d.3 Prepare & share in scientific presentations & worhshops.

d.4 Work in a team

Program structure and Couses:

Program courses:

First part:

- Acoustics
- Physiology: Hearing, Balance & Language
- Anatomy
- Genetics
- General Medicine and Neurology
- Statistics
- **Second part:**
- Hearing & Balance assessment & management

- Rehabilitation of hearing & Balance
- Hearing aids.
- ENT

Thesis:

Program duration: two years

Course Information

Academic Year/level:

2022-2023

Acoustics :Course Title •

Code: HE 200

Number of teaching hours:

Lectures: Total of **41** hours; 2 hours/week

- **clinical/Field:** Total of zero hours; zero hours/week

Overall Aims of the course	*By the end of the course the student must be able to:* 1. acquire fundamentals of hearing science and acoustics of sounds including speech. 2. recognize the correlation between the physiology of the auditory pathway and sound as a physical phenomenon.
Intended learning outcomes of course (ILOs): ***Upon completion of the course, the student should be able to:***	
Knowledge and Understanding	A1. Understand the theory and terminologies of sound wave phenomena as a mechanical vibrating system. A2. Outline the principles of sound propagation. A3. Recognize the clinical and technical relevance of sound propagation such as transmission, absorption, interference, diffraction, and reflection. A4 Understand the acoustic principles underlying sound measurement. A5. Understand the basic concepts of psycho- acoustics.
Intellectual Skills	B1. Comprehend the changes of sound wave during its propagation. B2.Describe and use different types of measurement units in the clinical and community set-ups. B3.State the physical units for sound measurements B4.Describe the psycho-acoustic correlates of sounds. B5.Describe the clinical relevance of speech acoustics.
Professional and Practical Skills	C1. Recognize acoustic models of the human ear and how to apply them in research projects and clinical field studies. C2.Describe how principles of sound wave phenomenon can be applied in construction and calibration of sound treated rooms and sound delivery equipment C3. Describe how principles of sound wave phenomenon can be applied in

	hearing conservation programs and classroom acoustics. C4.Recognize the different sound stimuli that can be used in clinical testing C5.Recognize speech defects in hearing impaired patients and correlate this assessment with the audiological data for proper management.
General and transferable Skills	D1. Acquire time management skills to accomplish individual designated tasks by a given date; D2. Gain oral presentation skills. D3.Gather and organize material from various sources (including library, electronic and online resources).

Course Contents

Topic	Lecture hours/week	Practical/Clinical hours/week	Total No. of hours
The nature of sound waves	2		3
	1		
Signals	2		4
	2		
Sound measurement and dB notation	2		6
Complex waves	2		
Resonance and filtering	2		
	2		
	2		
Loudness Perception	2		4
	1		
Pitch perception	2		3
	2		
Masking	2		6
	2		

Psychoacoustics	1	
		3
Sound transmission	2	4
	2	
Speech acoustics	2	3
	1	
Clinical applications	2	4
	2	
Total	wks 21 2hrs/ wk for	41

Teaching and Learning Methods	Lectures and self directed lectures
Student Assessment	
Student Assessment Methods	Written and oral exams
	Written exam in the form of:: MCQs and Short essays to assess knowledge
Assessment Schedule (Timing of Each Method of Assessment)	Final exam at the end of first year
Weighting of Each Method of Assessment	Written 24 Oral 36 Total 60

List of References	
Course Notes/handouts	Course Notes (paper and / or electronic)
Essential Books & Recommended Text Books	Essential Books (Textbooks) : Introduction to sounds: Acoustics for hearing and speech Sciences. Charles E.

Speak

Hearing Science, Diana Emanuel & Tomasz Letowski, Lippincott Williams & Wilkins, 2016.

Speech Science Primer, Laurence Raphael, Gloria Borden & Katherine Harris, Williams & Wilkins, 2015.

'eriodicals, websites

Course Coordinator/s:

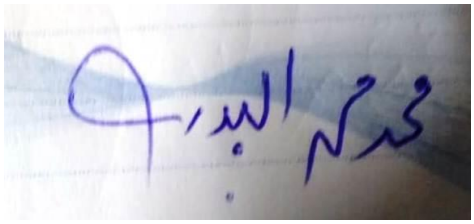
Dr.Dalia Fahim Mohammed

Dr.Reham gamal radwan

Dr.Amira Mohamed fawzy

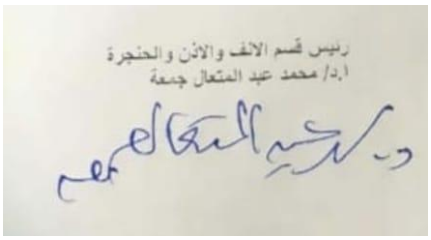
Head of the Audio-vestibular :

Prof. Dr. Mohammed Mohammed Elbadry



Head of Department:

Prof. Dr. Mohammed Abd-Elmotaal



Date of <u>last update</u>& approval by department Council:

6/ 3/2023

مسمى المقرر	
• acoustics	
كود المقرر	HE100

جامعة/أكاديمية : المنيا

كلية / معهد: الطب

قسم : طب السمع و الاتزان

A. Matrix of Coverage of Course ILOs

By Content

Contents (List of course topics)	Week No.	Intended Learning Outcomes (ILOs)			
		A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
		A	B	C	D
The nature of sound waves	1	A1,a2,a4	B1	C2	D1,2,3
Signals	2	A1,a2,a4	B1,b2	C2,c3,c4	D1,2,3
Sound measurement and dB notation	3	A4,a5	B3	Cc4,c5	D1,2,3
Complex waves					

	Resonance and filtering					
	Loudness Perception Pitch perception Masking Psychoacoustics	**4**	**A4**	**B4**	**C1,c2**	**D1,2,3**
	Sound transmission	**5**	**A4**	**B5**	**C1,c2**	**D1,2,3**
	Speech acoustics	**6**	**A1,a5**	**B4**	**C1,c2,5**	**D1,2,3**
	Clinical applications		**A3**	**B5**	**C1**	**D1,2,3**

Matrix of Coverage of MSC Program ILOs By Course methods of teaching and learning

Methods of Teaching & Learning	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Lecture	A1,A2	B1,B2,B3		
Presentation/seminar			C1,C2,C3	D1
Group discussion			C1,c2,c3	D1,D3,

C.Matrix of Coverage of Course ILOs by Methods of Assessment

Methods of Assessment	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Written exam	A1,a2	B1,b2,b3		
Oral Exam	A1,a3,a4	B1,b2,b3		D1

(نموذج 16)
تقرير مقرر دراسي

Course report (2022-2023)

University: Minia

Faculty: Medicine

Department: ENT department (Audiovestibular medicine)

A-Basic Information

1- **Course Ttitle and Code:** Audiovestibular medicine (acoustics) (master degree) - HE200

2- **Specialty**: Audiovestibular medicine

3- **Level (1st part):**

4- **Number of units / Credit hours:**

Lectures **2hr/wk** For 20 weeks+ Field/clinical **zero hr/wk**

5- **Adopted system for selection & formation of examiners' committee:**

6- **System of external evaluation of the exam:**

Available **+++** Not available

7- **Number & Names of teaching staff members:** 3staff members

Dr.Mohammed Elbadry

B- Professional Information

1- **Statistical Information:**

ɔ. of students attended/joined the course No. 1 % **100**

ɔ. of students completed the course & attended the exam No. 1 100%

- Results:

Passed: No: 1 % 100% Failed: No: %

- Ssuccess percentages & distribution according to the grades of passedstudents:

Excellent No: 1 % 100% Very good: No: %

Good No: % Pass: No: %

2- Course Teaching:

- **Course topics taught**

ırse Contents			
Topic	**Lecture hours/week**	**Practical/Clinical hours/week**	Name of teaching staff
The nature of sound waves	2 1		Dr.Mohammed Elbadry
Signals	2 2		Dr.Mohammed Elbadry

Sound measurement and dB notation	2	Dr.Mohammed Elbadry
Complex waves	2	
Resonance and filtering	2	
	2	
	2	
Loudness Perception	2	Dr.Mohammed Elbadry
	1	
Pitch perception	2	
	2	
Masking	2	
	2	
Psychoacoustics	1	
Sound transmission	2	Dr.Mohammed Elbadry
	2	
Speech acoustics	2	Dr.Mohammed Elbadry
	1	
Clinical applications	2	
	2	

- Total percentage of the essential course topics that actually covered:100%

- Obligation/commitment of the teaching staff to the specified course content:

>85% [+++++] **60-84 %** [ ] **<60%** [ ]

- The extent to which the exam covered the course topics:

>85% [+++++] **60-84 %** [ ] **<60%** [ ]

- Teaching and Learning Methods:

Lectures	+++
Practical/laboratory training	
Clinical training	
Grand rounds	
Case presentation & case study Training courses	
Seminars and workshops	
Self-learning	+++
Others (specify)	

3- Student Assessment:

Method of Assessment	Marks	%
Written examination	24	40%
Oral examination	36	60%
Practical/ Laboratory examination		
Clinical examination		
Assignments/ activities/log book		
Other (Specify)		
Total	60	100%

4- Facilities available for Teaching:

- **Scientific references**

Available [+++] **Available to some extent** [ ] **Unavailable** [ ]

- **Assistant aids/tools:**

Available [ ] **Available to some extent** [+++] **Unavailable** [ ]

- **Other materials, supplies and requirements**

Available [+++] **Available to some extent** [ ] **Unavailable** [ ]

5- Administrative & regulatory Constraints:

No ☐ Yes ☐

- **If yes, Please specify:**

6 – Results of student feedback as a result of course evaluation:

.1The library references for the students: we arrange to increase number of booklets by the department to students .

.2The numbers of cases in practical lectures: we arrange to increase number of cases

.3Using suitable and objective evaluation tools: we take into consideration all parameters of evaluation as the theoretical and practical items .

.4About certain references: our department arrange to collect more books and text books in the collage library.

-5 access to operating room

7- External evaluator/s comments:

8- Completed actions related to course development in the last year:

9- Non-completed actions related to course development in the last year:

10- Action plan for the next aacademic year:

- **Fields/areas of course development**

Actions Required	Completion Date	Responsible Person
Add clinical applications for some topics as masking and psycoacustics		Dr. Mohammed Elbadry

Course Coordinator:

Dr. Mohamed Mohamed el-badry

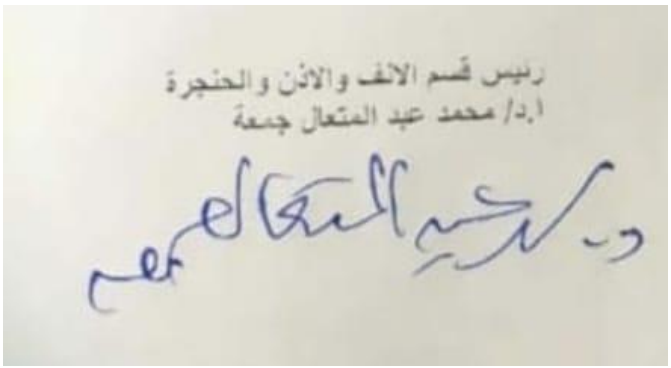
Dr. Dalia Fahim mohammed

Dr.Amira Mohamed fawzy

Signature:

Head of ENT Department:

Prof. Dr. Mohammed Abd Elmotaal



Date : 5 / 2022

Faculty of Medicine, Minia University

Course Specifications of audiovestibular medicine

University: Minia

Faculty: Medicine

Department : ENT department (audiovestibular unit)

Course Information

Academic Year/level:

2022-2023

Physiology :Course Title • **Code**: HE 200

Number of teaching hours:

ectures: Total of 30 hours; 2 hours/week

ractical/clinical: Total of zero hours; zero hours/week

Overall Aims of the course	1. To explore in detail the functions of the ear and its central nervous connections & relation to other systems. *2.* To integrate physiological data & mechanisms of hearing and balance with the ongoing basic sciences: anatomy, acoustics and physics and their clinical applications. *3.*To develop the basic scientific research skills as well as effective communication and team work attitudes.

Intended learning outcomes of course (ILOs):

Upon completion of the course, the student should be able to:

Knowledge and Understanding	A1. Recognize and describe hearing end organ and its central nervous system connections. A2.Recognize and describe the balance end organs and their central nervous system connections A3.Understand the physiologic mechanisms of peripheral hearing. A4.Understand physiologic mechanisms of central auditory abilities.

ntellectual Skills	A5.Understand the mechanisms of gaze stabilization A6.Understand the mechanisms of gait and posture control. A7.Understand physiologic basis of brain plasticity concerning hearing and balance systems. B1. Integrate the physiology of the hearing and balance with other basic and clinical sciences. B2.Identify subjects with suspected hearing or balance dysfunction and apply dysfunction to its physiologic correlate B3.Direct subjects with suspected hearing or balance dysfunction to the proper investigation. B4.Interpret the clinical situations resulting from physiological malfunction of the hearing and balance functions.
Professional and Practical Skills	C1. Select of the diagnostic or screening methods which will be most appropriate and informative in a given clinical situation. C2.Interpret the hearing and balance tests based on their acquired knowledge in physiology
General and transferable Skills	D1. Gather and organize material from various sources (including library, electronic and online resources). D2.Understand the importance of continuing professional development.

Course Contents

Topic	Lecture hours/week	Practical/Clinical hours/week	Total No. of hours
Dimensions of Hearing	2		4
	2		
External ear Functions	2		4
	2		
Middle Ear Functions	2		5
	2		
	1		
Inner Ear Functions	2		7
	2		
	2		
	1		

Central Auditory Pathway	2	3
	1	
Physiology of Speech	2	4
	2	
Balance Control	2	4
Vestibuo-ocular Reflex	2	3
Vestibulo-Spinal Reflex	2	3
	1	
Otolith	2	4
	1	
	2	
	2	
Total	hr/wk for 21 wk 2	41

Teaching and Learning Methods	Lectures and self directed lectures
Teaching and Learning Methods forstudents with limitedCapacity	
Student Assessment	
Student Assessment Methods	Written and oral exams
	Written exam in the form of:: MCQs and Short essays to assess knowledge
Assessment Schedule (Timing of Each Method of Assessment)	Final exam at the end of first year
Weighting of Each Method of Assessment	Written 24
	Oral 36
	Total 60

List of References	
Course Notes/handouts	Course Notes (paper and / or electronic)
Essential Books	Essential Books (Textbooks) : Scottbrown textbook 2016
Periodicals, websites	

Course Coordinator/s:

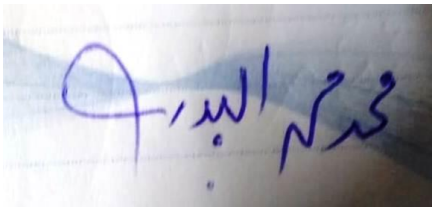
Dr.Dalia Fahim Mohammed

Dr.Mohamed makhlof hasan

Dr.Amira Mohamed fawzy

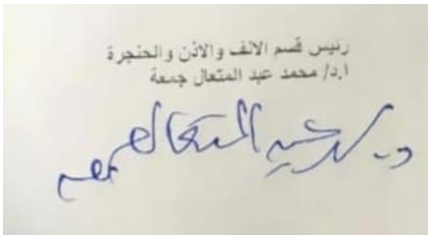
Head of the Audio-vestibular :

Prof. Dr. Mohammed Mohammed Elbadry



Head of Department:

Prof. Dr. Mohammed Abd-Elmotaal



Date of last update& approval by department Council:

2023/3 /6

جامعة/أكاديمية : المنيا

كلية / معهد: الطب

قسم: طب السمع والاتزان

مسمى المقرر	كود المقرر
• physiology	HE100

A. Matrix of Coverage of Course ILOs By Content

Contents (List of course topics)	Week No.	Intended Learning Outcomes (ILOs)			
		A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
		A	B	C	D
Dimensions of Hearing	1	A1,a3,a4	B1,b2,b3	C1,c2	D1
External ear Functions	2	A1,a3	B1,b2,b3	C1,c2	D1

Middle Ear Functions	**3**	**A1,a3**	**B1,b2,B3**	**C1,c2**	**D1**
Inner Ear Functions	**4**	**A1,a2,a3**	**B1,b2,b3**	**C1,c2**	**D1**
Central Auditory Pathway	**5**	**A4**	**B4**	**C2**	**D1**
Physiology of Speech	**6**	**A1,a3**	**B1,b2,b3**	**C2**	**D1**
Balance Control	**7**	**A2,a5,a6,a7**	**B4**	**C2**	**D2**
Vestibuo-ocular Reflex	**8**	**A2,a4,a5**	**B4**	**C2**	**D2**
Vestibulo-Spinal Reflex	**9**	**A2,a4,a5**	**B4**	**C2**	**D2**
Otolith	**10**	**A2**	**B4**	**C2**	**D2**

B.methods of Teaching & Learning

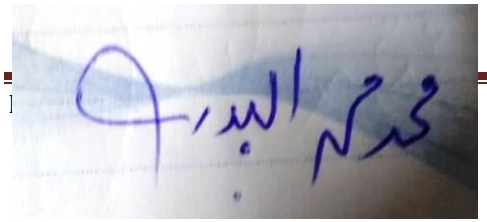
Methods of Teaching & Learning	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Lecture	A1,A2,a3,a4, a5,a6,a7	B1,B2,B3,4		
Group discussion			C1,c2	D1,d2

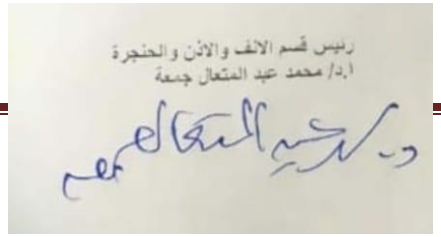
C.Matrix of Coverage of Course ILOs by Methods of Assessment

Methods of Assessment	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Written exam	A1,a2,a3,a4, a5,a6,a7	B1,b2,b3,b4		
Oral Exam	A1,a3,a4	B1,b2,b3,b4		D1,d2

Head of the Audio-vestibular : **Head of Department:**

Prof. Dr. Mohammed Mohammed Elbadry Prof. Dr. Mohammed Abd-Elmotaal





تقرير مقرر دراسي

Course report (2022-2023)

University: Minia

Faculty: Medicine

Department: ENT department (Audiovestibular medicine)

A-Basic Information

1- **Course Ttitle and Code:** Audiovestibular medicine(physiology) (master degree) - HE200

2- **Specialty**: Audiovestibular medicine

3- **Level (1st part):**

4- **Number of units / Credit hours:**

Lectures **2hr/wk** For 20 weeks+ Field/clinical **Zero hr/wk**

5- **Adopted system for selection & formation of examiners' committee:**

6- **System of external evaluation of the exam:**

Available **+++** Not available

7- **Number & Names of teaching staff members:** 3staff members

Dr. Mohammed makhlof

B- Professional Information

1- Statistical Information:

- No. of students attended/joined the course	No.	1	% **100**
). of students completed the course & attended the exam	No.	1	100%

- Results:

Passed:	No:	1	% 100%	Failed: No:	%

- Ssuccess percentages & distribution according to the grades of passedstudents:

Excellent	No:	1	% 100%	Very good:	No:	%
Good	No:		%	Pass:	No:	%

2- Course Teaching:

- Course topics taught

1. Course Contents			
Topic	**Lecture hours/week**	**Practical/Clinical hours/week**	Name of teaching staff
Dimensions of Hearing	2 2		Dr. Mohammed makhlof
External ear Functions	2 2		Dr. Mohammed makhlof

Middle Ear Functions	2	Dr. Mohammed makhlof
	2	
	1	
Inner Ear Functions	2	Dr. Mohammed makhlof
	2	
	2	
	1	
Central Auditory Pathway	2	Dr. Mohammed makhlof
	1	
Physiology of Speech	2	Dr. Mohammed makhlof
	2	
Balance Control	2	Dr. Mohammed makhlof
Vestibuo-ocular Reflex	2	Dr. Mohammed makhlof
Vestibulo-Spinal Reflex	2	Dr. Mohammed makhlof
	1	
Otolith	2	Dr. Mohammed makhlof
	1	
	2	
	2	

- Total percentage of the essential course topics that actually covered:100%

- Obligation/commitment of the teaching staff to the specified course content:

>85%	+++++	60-84 %		<60%	

- The extent to which the exam covered the course topics:

>85%	+++++	60-84 %		<60%	

- Teaching and Learning Methods:

Lectures	+++
Practical/laboratory training	
Clinical training	
Grand rounds	
Case presentation & case study Training courses	
Seminars and workshops	
Self-learning	+++
Others (specify)	

3- Student Assessment:

Method of Assessment	Marks	%
Written examination	24	40%
Oral examination	36	60%
Practical/ Laboratory examination		
Clinical examination		
Assignments/ activities/log book		
Other (Specify)		
Total	60	100%

4- Facilities available for Teaching:

- Scientific references

Available	Available to some extent	Unavailable
+++		

- Assistant aids/tools:

Available	Available to some extent	Unavailable
	+++	

- Other materials, supplies and requirements

Available	Available to some extent	Unavailable
+++		

5- Administrative & regulatory Constraints:

No Yes

- **If yes, Please specify:**

6 – Results of student feedback as a result of course evaluation:

.1The library references for the students: we arrange to increase number of booklets by the department to students .

.2Using suitable and objective evaluation tools: we take into consideration all parameters of evaluation as the theoretical and practical items .

.3About certain references: our department arrange to collect more books and text books in the collage library.

-4 access to operating room

7- External evaluator/s comments:

8- Completed actions related to course development in the last year:

9- Non-completed actions related to course development in the last year:

10- Action plan for the next aacademic year:

- **Fields/areas of course development**

Actions Required	Completion Date	Responsible Person
Add more items related to physiology of vestibular assessment and rehabilitation		

Course Coordinator:

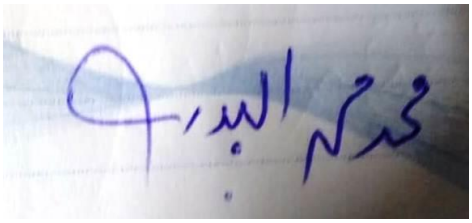
Dr. Mohamed Mohamed el-badry

Dr. Dalia Fahim mohammede

Dr.Amira Mohamed fawzy

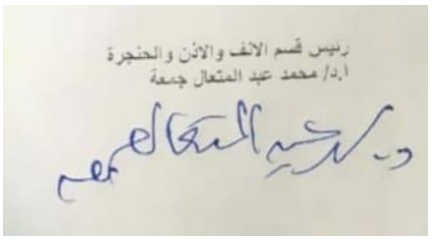
Head of the Audio-vestibular :

Prof. Dr. Mohammed Mohammed Elbadry



Head of Department:

Prof. Dr. Mohammed Abd-Elmotaal



Faculty of Medicine, Minia University

Course Specifications of Anatomy and Embryology in Master degree in Audiology

University: Minia

Faculty: Medicine

Department: human anatomy and embryology

1. Course Information		
• **Academic Year/level:** first part **2022-2023**	• **Course Title:** Course Specifications of Anatomy and Embryology in Master degree in **Audiology**	
• **Number of teaching hours:** - **Lectures:** Total of 24hours - **Practical/clinical**: Total of 11 hours		
2. Overall Aims of the course	*By the end of the course the student must be able to:* have the professional knowledge anatomy and embryology of ear, auditory pathway & central processing of sounds in auditory cortex.	
3. Intended learning outcomes of course (ILOs): ***Upon completion of the course, the student should be able to:***		
A- Knowledge and Understanding	A1. Mention the normal structure and function of hearing and language parts of nervous system on the macro levels. A2. discuss early embryo development & normal growth and	

	development of the ear. A3. List the recent advances in the abnormal structure, function of hearing system. A4. Demonstrate the anatomical basis of surface anatomy and radiologic anatomy A5**.** Demonstrate the cell division A6. Identify the normal structure of genes A7. List the normal Structure of human chromosome
B- Intellectual Skills	B1. Link between knowledge for Professional problems solving. B2. Conduct research study and / or write a scientific study on a research problem. B3. analyze diseases based on anatomical disruptions. B4. Find out goals to improve performance in the field of audiology. B5. Diagnosis of diseases based on genetic disruptions. B6. List modern researches correlated with genetics of hearing.
C- Professional and Practical Skills	C1. Master the basic and modern medical skills in the area of internal medicine. C2. Description of diseases and anomalies based on

	anatomical data.
D- General and transferable Skills	d1. Communicate effectively by all types of effective communication. d2. Use information technology to serve the development of professional practice. d3. Assess the candidate himself and identify personal learning needs. d4. Use different sources to obtain information and knowledge d5. Assess the performance of others

4. Course Contents

Topic	Lecture hours/week	Practical/Clinical hours/week	Total No. of hours hours/week
Anatomy of skull and petrous bone	4	2	6
Anatomy of CNS related to auditory functions: brain, ventricular system and central blood supply.	2	2	4
Development and anomalies of the ear.	2	2	4
Functional anatomy of vestibule-cochlear nerve.	2		2
Functional anatomy of hearing.	2	-	2
Functional anatomy of brain auditory pathways.	2	-	2
Applied anatomy and clinical correlates of vascular accidents, and hearing defects	2	2	2

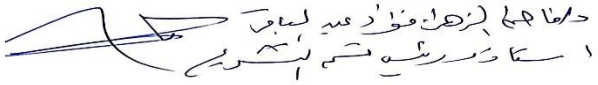
Cell biology	2	1	3
Normal and abnormal cell division	2	1	3
The normal structure of genes	2	1	3
Revision	2	-	2
Total	24	11	35
5. Teaching and Learning Methods	• Lectures • Practical **{**skill lab, cadavers, plastinated and plastic models: instructor guided} • Presentation/seminar • Group discussion		
6. Teaching and Learning Methods for students with limited Capacity			
7. Student Assessment			
A. Student Assessment Methods	**1- written exam: paper based exams** **1 paper for 1st part exam** Short assay: to assess Knowledge, understanding Problem solving: asses intellectual skills Multiple choice: assess Knowledge, understanding and intellectual skills Periodic quizzes: assess Knowledge, understanding and intellectual skills **2- Practical exams (**skill lab exams): **to assess**		

	practical skills as well as intellectual skills. **3- Oral exam: to assess understanding, intellectual skills and transferrable**.
B. Assessment Schedule (Timing of Each Method of Assessment)	Assessment 1 ... Final practical exam (skill lab exams Week: 20-22 Assessment 2…. Final written exam (paper based exam). Week : 22-24 Assessment 3…..Final oral exam Week: 22-24
C. Weighting of Each Method of Assessment	Final-term Final written exam (paper based exam) Examination: 34 Oral Examination: 31 Practical Examination; skill lab exams: 5 _____
8. List of References: - **Standring,S, Ellis, H., Healy, J.C., Johnson, D., and Williams, J.C., 2016. Gray's anatomy. 50th edition.** - **Junqueira, L.C. and Carneiro, J., 2015. Basic histology. 10th edition.** - **Moore K.L., and Agur A.M.R., 2016. Essential clinical anatomy. 14th edition.**	
A. Course Notes/handouts	Lecture notes prepared by staff members in the

	department.
B. Essential Books	Gray's Anatomy.
C. Recommended Text Books	A colored Atlas of Human anatomy and Embryology.
D. Periodicals, websites	American J. of Anatomy Cochrane Library,Medline & Popline

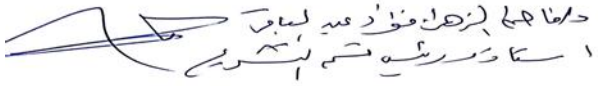
Course Coordinator/s:

Prof. Dr. Fatma Alzahraa Fouad Abdel- Baky



Head of Department:

Prof. Dr. Fatma Alzahraa Fouad Abdel- Baky



Date of <u>last update</u> & approval by department Council:

2023\ 3 \6

Course Specifications of audiovestibular medicine

University: Minia

Faculty: Medicine

Department: ENT department (audiovestibular unit)

24. Course Information

Academic Year/level:

2022-2023

Genetics :Course Title •

Code: HE 200

Number of teaching hours:

- **Lectures:** Total of 15hours; 1hours/week

- **Practical/clinical:** Total of zero hours; zero hours/week

5. Overall Aims of the course

By the end of the course the student must be able to:

1.know the principles and practice of Medical Genetics which will allow them to evaluate, choose and interpret appropriate genetic investigations for individuals, families and populations with genetic disease.

2. recognize role of genetics in hearing loss and balance disorders.

3. work with family information and diagnostic data in order to provide genetic risk assessment and best genetic advice to individuals and their families in an ethical way.

26. Intended learning outcomes of course (ILOs):

Upon completion of the course, the student should be able to:

M- **Knowledge and Understanding**

A1. Recognize chromosomal disorders and methods used to characterize the underlying chromosomal abnormality.

A2.Understand the molecular basis of inherited disease, diagnostic methods which are used to identify the causative mutations in patients or carriers.

A3.Recognize the principles and practice of population screening programs for inborn errors of

N- **Intellectual Skills**	metabolism, prenatal identification of pregnancies at risk of chromosomal disorders. B1. Identify children with suspected genetic condition and to direct them to the proper investigation. B2.Interpret family pedigree
)- **Professional and Practical Skills**	C1. Apply their knowledge base in Medical Genetics in using clues from pedigree, family history and other information to suggest likely inheritance patterns and / or diagnoses. C2.Select of the diagnostic or screening methods which will be most appropriate and informative in a given clinical situation whilst taking into account referring them to a geneticist.
P- **General and transferable Skills**	D1. Acquire time management skills to accomplish individual designated tasks by a given date.

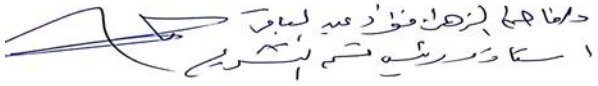
27. Course Contents

Topic	Lecture hours/week	Practical/Clinical hours/week	Total No. of hours
Gene structure and gene function	1 1		2
Chromosomes and chromosomal aberrations	1 1		2
Mutations and teratogens	1 1		2
Pedigree construction, Patterns of inheritance: traditional patterns & non-traditional patterns of inheritance.	1 1		2
Gene therapy	1 1		2
Genetics of diseases related to hearing & balance disorders	1 1		2
Management of genetic abnormality and diagnostic approach	1 1 1		3

Total	hr/wk for 15 wks 1	15 hr
28. Teaching and Learning Methods	Lectures and self directed lectures	
29. Teaching and Learning Methods forstudents with limitedCapacity		
30. Student Assessment		
Student Assessment Methods	Written and oral exams Written exam in the form of:: MCQs and Short essays to assess knowledge	
K. **Assessment Schedule (Timing of Each Method of Assessment)**	Final exam at the end of first year	
.. **Weighting of Each Method of Assessment**	Written 12 Oral 18 Total 30	
31. List of References		
J. **Course Notes/handouts**	Course Notes (paper and / or electronic)	
K. **Essential Books**		
.. **Recommended Text Books**		
M. **Periodicals, websites**		

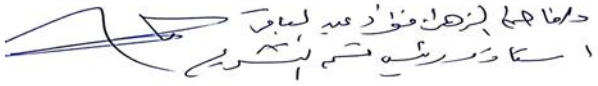
Course Coordinator/s:

Prof. Dr. Fatma Alzahraa Fouad Abdel- Baky



Head of Department:

Prof. Dr. Fatma Alzahraa Fouad Abdel- Baky



Date of <u>last update</u> & approval by department Council:

2023\ 3 \6

Intended Learning Outcomes (ILOs)	Week No.	

مسمى المقرر	التشريح
كود المقرر	HE200

نموذج رقم (11)

جامعة/أكاديمية : المنيا

كلية /: الطب

قسم: التشريح

A.Matrix of Coverage of Course ILOs by Contents

		A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
		A	B	C	D
Anatomy of skull and petrous bone	**1**	**1,3,4,2,**	**1,2**	**2**	**4,5**
Anatomy of CNS related to auditory functions: brain, ventricular system and central blood supply.	**2**	**2,3,4**	**2**	**2**	**2,4**
Development and anomalies of the ear.	**3**	**3,2,1**	**3**	**1,2**	**3,4**
Functional anatomy of vestibule-cochlear nerve.	**4**	**1,2,3,4**	**2**	**1,2**	**4,5**
Functional anatomy of hearing.	**5**	**1,2,3**	**3**	**1**	**1,2,5**
Functional anatomy of brain auditory pathways	**6**	**2,3,4**	**2**	**2**	**2,4**
Applied anatomy and clinical correlates of vascular accidents, and hearing defects.	**7**	**1,2,3,4**	**1,4**	**1,2**	**4,5**

Cell biology	8	**1,2,5**	**4**	**1,2**	**1,2**
Normal and abnormal cell division	9	**3,4,6**	**5,6**	**2**	**3,4**
The normal structure of genes	10	**1,3,7**	**6**	**1**	**1,5**
Revision	11	**1,2,4**	**1,2**	**1**	**1,3,5**

Matrix of Coverage of Course ILOs by Methods of Teaching & Learning

Methods of Teaching & Learning	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Lecture	**1,2,3,4,6,7**	**1,2**		
Practical skill lab instructor guided			**2**	
Presentation/seminar	**1.4**			**4,3**
group discussion	**4**		**1**	**1,3,4**

Matrix of Coverage of Course ILOs by
Methods of Assessment

Methods of Assessment	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	**B. Intellectual Skills**	**C. Professional & Practical skills**	**D. General & Transferable Skills**
	A	**B**	**C**	**D**
Written exam Paper based	**1,2,3,4,5,6,7**	**1,2,3,4**		
Practical exam Skill lab			**2**	
Oral Exam	**1,2,3,4**	**2,5,6**		**4,5**

Course Coordinator/s:

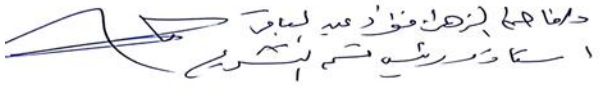
Prof. Dr. Fatma Alzahraa Fouad Abdel- Baky

Head of Department:

Prof. Dr. Fatma Alzahraa Fouad Abdel- Baky

Date of <u>last update</u> & approval by department Council:

2023\ 3/6



Blueprint of Audiology MD" Examination Paper"

	Topic	Hours	Knowledge%	Intellectual %	% topic	No. of items per topic	Knowledge mark	Intellectual mark	Mark	Actual mark
1	Anatomy of skull and petrous bone	4	67%	33%	18%		4	2.1	6.1	6
2	Anatomy of CNS related to auditory functions: brain, ventricular system and central blood supply.	2	75%	25%	9%		2.25	0.75	3	3
3	Development and anomalies of the ear.	2	75%	25%	9%		2.25	0.75	3	3
4	Functional anatomy of vestibule-cochlear nerve.	2	80%	20%	9%		2.4	0.6	3	3
5	Functional anatomy of	2	75%	25%	9%		2.25	0.75	3	3

	hearing.									
6	Functional anatomy of brain auditory pathways	2	75%	25%	9%		2.25	0.75	3	3
7	Applied anatomy and clinical correlates of vascular accidents, and hearing defects.	2	67%	33%	9%		2.1	0.9	3	3
8	Cell biology	2	75%	25%	9%		2.25	0.75	3	3
9	Normal and abnormal cell division	2	60%	40%	9%		1.8	1.2	3	3
10	The normal structure of genes	2	75%	25%	9%		2.25	0.75	3	3

Course Coordinator/s:

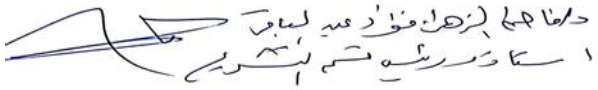
Prof. Dr. Fatma Alzahraa Fouad Abdel- Baky

Head of Department:

Prof. Dr. Fatma Alzahraa Fouad Abdel- Baky

date of <u>last update</u> & approval by department Council:

2023\ 3 \6



Course report of human anatomy and embryology of 1st part of MSC degree in audiology April 2022- 2023

University: Minya

Faculty: Medicine

Department: human anatomy and embryology

A-Basic Information

1- Course title and Code: human anatomy and embryology of audiology, HE 200

2- Specialty: audiology

3- Level/year (1st or 2nd part): 1st part.

4- Number of units: lectures 2 hrs/ week, practical 2hrs/week

5- Adopted system for selection & formation of examiners' committee:

Available	√	Not available	

6- System of external evaluation of the exam:

Available	√	Not available	

7- Number & Names of teaching staff members:1

Prof. Dr. Fatma Alzahraa Fouad Abdel- Baky

B- Professional Information

1- Statistical Information:

- No. of students attended/joined the course	No.	1	%	**100**
- No. of students completed the course & attended the exam	No.	1	%	**100**

- Results:

Excellent	No:		%		Very good:	No: 1	%
Good	No:		%		Pass:	No:	%
Passed:	No: 1	%	**100**		Failed:	No: **0**	%

2- Course Teaching:

- **Course topics taught**

Topic	**Lecture** **No. of hours/week**	**Practical or clinical** **No. of hours/ week**	**Staff member name**

1. Anatomy of skull and petrous bone	4	2	- Prof. Dr. Fatma Alzahraa Fouad Abdel- Baky
2. Anatomy of CNS related to auditory functions: brain, ventricular system and central blood supply.	2	2	- Prof. Dr. Fatma Alzahraa Fouad Abdel- Baky
3. Development and anomalies of the ear.	2	2	Prof. Dr. Fatma Alzahraa Fouad Abdel- Baky
4. Functional anatomy of vestibule-cochlear nerve.	2		- Prof. Dr. Fatma Alzahraa Fouad Abdel- Baky
5. Functional anatomy of hearing.	2		- Prof. Dr. Fatma Alzahraa Fouad Abdel- Baky
6. Functional anatomy of brain auditory pathways	2	2	- Prof. Dr. Fatma Alzahraa Fouad Abdel- Baky
7. Applied anatomy and clinical correlates of vascular accidents, and hearing defects.	2	2	- Prof. Dr. Fatma Alzahraa Fouad Abdel- Baky
8. Cell biology	2	1	- Prof. Dr. Fatma Alzahraa
9. Normal and abnormal cell division	2	1	- Prof. Dr. Fatma Alzahraa
10. The normal structure of genes	2	1	- Prof. Dr. Fatma Alzahraa
11. Revision	2		- Prof. Dr. Fatma Alzahraa Fouad Abdel- Baky

- Total percentage of the essential course topics that actually covered: 100 %

- Obligation/commitment of the teaching staff to the specified course content:

>85%	√	60-84 %		<60%	

- The extent to which the exam covered the course topics:

>85%	√	60-84 %		<60%	

- Teaching and Learning Methods:

Lectures	√
Practical/laboratory training	√
Semester work/class activities	
Training courses and workshops	√
Seminars	√
Self-learning	√

3- Student Assessment:

Method of Assessment	Marks	%
Written examination 1 paper based exam	34	48
Oral examination	31	44
Skill lab examination	5	7
Total	70	100

4- Facilities available for Teaching:

- Scientific references:

Available	√	**Available to some extent**		**Unavailable**	

- Assistant aids/tools:

Available		**Available to some extent**	√	**Unavailable**	

- Other materials, supplies and requirements:

Available		**Available to some extent**	√	**Unavailable**	

5- Administrative & regulatory Constraints:

No	√	**Yes**	

6- ***Results of student feedback as a result of course evaluation: Attached to the file***

- مشوق 80% ج ج 20%ج
- يرتبط بالتخصص 90% ج ج 10%مقبول
- يتضمن معلومات حديثة90% ج ج 10% ج
- يوفر امثلة عملية 70% ج ج 20% ج 10% مقبول
- يقابل توقعاتي 90% ج ج 10% مقبول
- مفيد في التطبيق العملى80% ج ج 20% ج
- مترابط100% ج ج
- له اهداف واضحة100% ج ج

- اكسبني مهارات مهنية70%ج ج 30% مقبول
- يقدم المحاضرات وفقا لمواعيد الجدول 80% ج ج 20% مقبول
- تغطى المحاضرات كل الموضوعات 90% ج ج 10% ج

7-Completed actions related to course development in the last year:

- Acquiring excellent level of medical knowledge in the discussed courses in human anatomy and Embryology.
- Improving laboratory specimens and network connections.
- Provide more hours for practical courses
- Identification of different anatomical specimens.

8-Non-completed actions related to course development in the last year

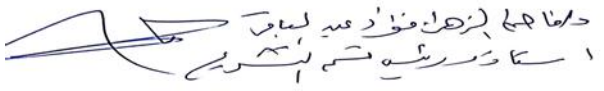
- Financial support from the faculty for the laboratory training.

Action plan for the next academic year:

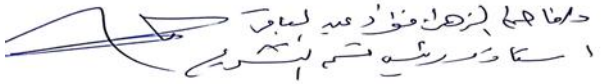
Fields/areas of course development

Actions Required	Completion Date	Responsible Person
Requesting financial support from the faculty for the laboratory training.	By end 2024	Head of the department Staff members
Searching for funding institutes to get financial support for equipping the laboratory.	By end 2024	Head of the department Staff members

Program Coordinators: : Prof. Dr. Fatma Alzahraa Fouad Abdel- Baky



Head of Department: Prof. Dr. Fatma Alzahraa Fouad Abdel- Baky



Date of <u>last update</u> & approval by <u>department council</u>:

audiovestibular medicine of Course Specifications

University: Minia

Faculty: Medicine

ENT department (audiovestibular unit) :Department

32. Course Information

Academic Year/level: 2022-2023

Internal medicine and neurology :Course Title •

Code: HE 200

Number of teaching hours:

- Lectures: Total of 15 hours; 1 hour/week

- **Practical/clinical:**Total of Zero hours; zero hours/week

33. Overall Aims of the course	*By the end of the course the student must be able to:* 1. To know the principles and practice of Medical Genetics which will allow them to evaluate, choose and interpret appropriate genetic investigations for individuals, families and populations with genetic disease. 2.To recognize role of genetics in hearing loss and balance disorders. 3.To work with family information and diagnostic data in order to provide genetic risk assessment and best genetic advice to individuals and their families in an ethical way.

34. Intended learning outcomes of course (ILOs):

Upon completion of the course, the student should be able to:

- **Knowledge and Understanding**	A1. Recognize chromosomal disorders and methods used to characterize the underlying chromosomal abnormality. A2.Understand the molecular basis of inherited disease, diagnostic methods which are used to identify the causative mutations in patients or carriers. A3.Recognize the principles and practice of population screening programs for inborn errors of metabolism, prenatal identification of pregnancies at risk of chromosomal disorders.

R- **Intellectual Skills**	B1. Identify children with suspected genetic condition and to direct them to the proper investigation. B2.Interpret family pedigree.
- **Professional and Practical Skills**	C1. Apply their knowledge base in Medical Genetics in using clues from pedigree, family history and other information to suggest likely inheritance patterns and / or diagnoses. C2.Select of the diagnostic or screening methods which will be most appropriate and informative in a given clinical situation whilst taking into account referring them to a geneticist.
- **General and transferable Skills**	D1.Acquire time management skills to accomplish individual designated tasks by a given date.

35. Course Contents

Topic	Lecture hours/week	Practical/Clinical hours/week	Total No. of hours hours/week
Hypertension	1		1
Endocrinal disorders related to hearing	1		1
Ototoxicity	1		1
Fevers & rheumatic fevers	1		1
Haematology: anaemia & bleeding disorders	1		1
Acute & chronic renal failure	1		1
Steroidal & non-steroidal	1		1
Cervical spondylosis	1		1
Tumors of the cerebellopontine angle	1		1
Brain infections related to hearing loss.	1		1
Epilepsy in children & adults	1		1
Crainal nerve Palsy: trigeminal, facial, vestibule-cochlear	1		1
Demylinating diseases: Multiple sclerosis	1		1
Motor disorders related to posture	1		1

and gait disorders.		
Vascular diseases as: ACA, MCA, PCA, PICA, Migraine	1	1
Total	1hr /wk for 15 wks	15

. Teaching and Learning Methods	Lectures and self directed lectures
37. Teaching and Learning Methods forstudents with limitedCapacity	

38. Student Assessment

M. **Student Assessment Methods**	Written and oral exams Written exam in the form of:: MCQs and Short essays to assess knowledge
N. **Assessment Schedule (Timing of Each Method of Assessment)**	Final exam at the end of first year
O. **Weighting of Each Method of Assessment**	Written 24 Oral 18 Clinical 18 Total 60

39. List of References

N. **Course Notes/handouts**	Course Notes (paper and / or electronic)
O. **Essential Books**	
P. **Recommended Text Books**	
Q. **Periodicals, websites**	

نموذج رقم (16)
تقرير مقرر دراسي

Course report of Internal Medicine/MSc in Otology [May 2022]

University: Minia

Faculty: Medicine

Department: Internal Medicine

A-Basic Information

8- Course Title and Code: Internal Medicine/MSc in Otology

9- Specialty: Otology

10- Level/year: 1st part

11- Number of courses: 1

12- Adopted system for selection & formation of examiners' committee:

Available [√] Not available [ ]

13- System of external evaluation of the exam:

Available [√] Not available [ ]

14- Number & Names of teaching staff members: 49

1. Prof. Dr. Yossef Ismail Moussa (head of the department).
2. Prof. Dr. Mahmoud Mahmoud Aboel-Enin Khattab

3. Prof. Dr. Amr Mahmoud Ahmed Abdel-Wahab.
4. Prof. Dr. Mona Abdel-Rahman Hassanen Abu El-Makarem.
5. Prof. Dr. Ahmed Mohamed Saad El-din Salama
6. Prof. Dr. Fatima El-Zahraa Sayed
7. Prof. Dr. Noussa Mahmoud El-Adawy.
8. Prof. Dr. Mohamed Emad Abdel-Fattah.
9. Prof. Dr. Mahmoud Saad Abdel-Aleem.
10. Prof. Dr. Mahmoud Hassan Khedr.
11. Prof. Dr. Yehia Zakaria Mahmoud.
12. Prof. Dr. Osama Mohammed Kamal Elminshawy.
13. Prof. Dr. Ahmed Ali Mohamed Abdel-Aleem.
14. Prof. Dr. Hesham Abdel-Halim Ali.
15. Prof. Dr. Sahar Hossam El-Din Labib Elhiny
16. Prof. Dr. Mohammed Elsayed Abdel-Aal Shatat.
17. Prof. Dr. Amal Kamal Helmy
18. Prof. Dr. Ghada Mohamed Elsaghir.
19. Prof. Dr, Mohamed Ahmed Shaarawy.
20. Prof. Dr. Atef Farouk Elakkad.
21. Ass. Prof. Ashraf Ali Samy.
22. Ass. Prof. Asmaa Kasem Ahmed.
23. Ass. Prof. Ragaa Abdel-Shaheed Matta
24. Ass. Prof. Alyaa Sayed Abdel-Fattah.
25. Ass. Prof. Elham Ahmed Mohamed.
26. Ass. Prof. Mohamed Omar Abdel-Aziz.
27. Ass. Prof. Hesham Mustafa Tawfik.
28. Ass. Prof. Hesham Kamal Habib.
29. Ass. Prof. Mahmoud Ragab Mohammed.
30. Dr. Maha Tarafawy Mohammed.
31. Dr. Eman Heussein Khalil.
32. Dr. Shereen Mohammed Mohammed Elsaghir.
33. Dr. Hatem Ahmed Hassan.
34. Dr. Fatma Mokhtar Shaaban.

35. Dr. Basma Fathy Hassan.
36. Dr. Sharehan Abdel-Rahman Ebrahim
37. Dr. Shaimaa fathy kamel.
38. Dr. Fatma Moahmed Mohamed Kamel
39. Dr. Marwa Ebrahim Mohamed Ahmed
40. Dr. Rasha Fathy Rady.
41. Dr. Amira Taha Zaki.
42. Dr. Ahmed Mohamed Mady.
43. Dr. Nadia Ismail Abd Elhamid Mohamed.
44. Dr. Shaimaa Hassan Hamdy.
45. Dr. Mohamed Mamdouh Seddik.
46. Dr. Osama Nady Mohamed.

B- Professional Information

2- Statistical Information:

- No. of students attended/joined the course	No.	1	%	
- No. of students completed the course & attended the exam	No.	1	%	

- Results:

Passed:	No:	100	%	**100**	Failed:	No:	**0**	%
Excellent	No:	1	**%**	**100**	Very good:	No:		**%**
Good	No:		**%**		Pass:	No:		**%**

- Success percentages & distribution according to the grades of passed students:
  - Success percentages : 100%
  - Distribution :

2- Course Teaching:

- **Course topics taught.**

Topic	No. Of hours [Lectures]	Practical or clinical No. of hours	Staff member name
12. Neurology	6	6	- Prof. Dr. Mahmoud Saad Abdel-Aleem. - Prof. Dr. Osama Mohammed Kamal Elminshawy. - Prof. Dr. Amal Kamal Helmy - Prof. Dr, Mohamed Ahmed Shaarawy. - Prof. Dr. Atef Farouk Elakkad. - Ass. Prof. Hesham Mustafa Tawfik. - Ass. Prof. Hesham Kamal Habib. - Ass. Prof. Mahmoud Ragab Mohammed. - Dr. Basma Fathy Hassan. - Dr. Fatima Moahmed Mohamed Kamel - Dr. Osama Nady Mohamed.
13. Hematology	8	8	- Prof. Dr. Mona Abdel-Rahman Hassanen Abu El-Makarem. - Prof. Dr. Mohamed Emad Abdel-Fattah. - Prof. Alyaa Sayed Abdel-Fattah. - Dr. Shaimaa fathy kamel. - Dr. Amira Taha Zaki.
14. Cardiovascular system	8	8	- Prof. Dr. Mona Abdel-Rahman Hassanen Abu El-Makarem. - Prof. Dr. Noussa Mahmoud El-Adawy. - Prof. Dr. Ahmed Ali Mohamed Abdel-Aleem. - Ass. Prof. Ashraf Ali Samy.

			- Dr. Sharehan Abdel-Rahman Ebrahim
15. Endocrinology	8	8	- Prof. Dr. Amr Mahmoud Ahmed Abdel-Wahab. - Prof. Dr. Ahmed Mohamed Saad El-din Salama - Prof. Dr. Yehia Zakaria Mahmoud. - Prof. Dr. Sahar Hossam El-Din Labib Elhiny - Prof. Dr. Ghada Mohamed Elsaghir. - Ass. Prof. Asmaa Kasem Ahmed. - Dr. Maha Tarafawy Mohammed. - Dr. Marwa Ebrahim Mohamed Ahmed - Dr. Rasha Fathy Rady.
16. Gastointestinal and hepatobiliary diseases.	4	4	- Prof. Dr. Mahmoud Mahmoud Aboel-Enin Khattab - Prof. Dr. Youssef Ismail Moussa - Prof. Dr. Ahmed Ali Mohamed Abdel-Aleem. - Prof. Dr. Hesham Abdel-Halim Ali. - Prof. Dr. Mohammed Elsayed Abdel-Aal Shatat. - Dr. Hatem Ahmed Hassan. - Dr. Ahmed Mohamed Mady. - Dr. Mohamed Mamdouh Seddik.
17. Chest Diseases	6	6	- Prof. Dr. Fatma El-Zahraa Sayed - Prof. Dr. Mahmoud Hassan Khedr. - Ass. Prof. Elham Ahmed Mohamed. - Dr. Sharehan Abdel-Rahman Ebrahim - Dr. Nadia Ismail Abd Elhamid Mohamed. - Dr. Shaimaa Hassan Hamdy.

- Total percentage of the essential course topics that actually covered: 100 %

- Obligation/commitment of the teaching staff to the specified course content:

>85%	√	60-84 %		<60%	

- The extent to which the exam covered the course topics:

>85%	√	60-84 %		<60%	

- Teaching and Learning Methods:

Lectures	√
Practical/laboratory training	
Clinical training	√
Grand rounds	√
Case presentation & case study	√
Semester work/class activities	√
Training courses and workshops	
Seminars	√
Self-learning	√
Others (specify)	

3- Student Assessment:

Method of Assessment	Marks	%

Written examination	24	
Oral examination	16	
Practical/ Laboratory examination		
Clinical examination	20	
Assignments/ activities/log book		
Other (Specify)		
Total	60	100%

4- Facilities available for Teaching:

- **Scientific references:**

Available	√	**Available to some extent**		**Unavailable**	

- **Assistant aids/tools:**

Available	√	**Available to some extent**		**Unavailable**	

- **Other materials, supplies and requirements:**

Available		**Available to some extent**	√	**Unavailable**	

5- Administrative & regulatory Constraints:

No	√	Yes	

6 – Results of student feedback as a result of course evaluation:

- المقرر له اهداف واضحه (100%)
- المقرر يحفزنى على التغيير(100% ج ج)
- مفيد فى التطبيق العملى (90%)مفيد فى التطبيق العملى (90%)
- يوفر امثله علميه(100%)
- اكسبنى مهارات تفيد فى تكوين شخصيتى(100% ج)
- .

7- External evaluator/s comments:

- Good results with increase clinical training.

8- Completed actions related to course development in the last year:

- More clinical Training.

15- Non-completed actions related to course development in the last year:

- student hand out.

16- Action plan for the next academic year:

-Fields/areas of course development

Actions Required	Completion Date	Responsible Person
More clinical training.		All staff members
Exam should include more MCQs		All staff members

Coordinators:

1. Prof. Dr. Fatma El-Zahraa Sayed

Head of department: Prof. Dr. Youssef Ismail Moussa.

Date: 7-2022

Course Specifications of Neurology
1st Part of MSC Program of
Audiology
2023/2024

University: Minia

Faculty: Medicine

Department: Neurology and psychiatry

1. Course Information

• **Academic Year/level: 1st part of MSC** of Audiology	• **Course Title:** Neurology.	• **Code:**
• **Number of teaching hours:** - **Lectures:** Total of **48** hours; **2** hours/week - **Practical/clinical:** Total of **28** hours; **2** hours/week		

2. Overall Aims of the course	*By the end of the course the student must be able to:* 1.1. Competent audiologist with standard knowledge and skills of neurology 2.1. Diagnose and treat neurology diseases including that is presented with hearing loss. 3.1. Graduate is expected to apply recent national and international guidelines in neurology 4.1. Practice with sound professional ethical attitude; to interact with community problems 5.1. To take personal responsibility for his/her own continued medical development 6.1. Understand basics of scientific medical research.

3. Intended learning outcomes of course (ILOs): ***Upon completion of the course, the student should be able to:***	
A- Knowledge and Understanding	By the end of the study of master program the candidate should be able to: A1. Describe the essential anatomy of the central parts of vestibulocochlear system and relation to neighboring CNS structures. A2.Identify the basic mechanisms of the related nervous system physiology and biochemistry A3.Recognize the essential pathological changes of the related nervous system diseases A4.Describe various pharmacological therapeutic options of these disorders A5. Describe various non-pharmacological therapeutic options of these disorders

	A.6.Define main neurological diseases and their etiologies, pathologies, diagnosis and management.
B- Intellectual Skills	By the end of program, the candidate should be able to: B1. Recognize various neurology disorders B2. Identify the pathology and pathogenesis of main neurology disorders B3. Interpret a case study B4. Evaluate the clinical manifestations of main neurology problems B.5. Evaluate the differential diagnosis of main neurology problems B.6.Identify various radiological abnormalities of neurology disorders

C- Professional and Practical Skills	By the end of the program the candidate should be able to: C1. Take conclusive history from neurology patients C2. Perform neurological examination C3. Perform mental state examination C4. Solve main neurology problems including central diseases presenting with hearing loss or vertigo. C5. Assess severity and stages of neurology disorders
D- General and transferable Skills	D1. Demonstrate effective communication skills in all its forms in various circumstances and contexts including students, colleagues, senior staff, technicians, patients and other health care workers D2. Use efficiently information technology (IT) including data entry & analysis D3. Demonstrate skills of teaching others and evaluating their performance. D4. Develop the skills of assessment of personal learning needs and planning for self-development and continuous medical education. D5. Use efficiently available information resources to get basic & recent knowledge. D6. Work efficiently as a team member as well as a team leader in various professional events & circumstances. D7. Demonstrate basic & essential competencies for management of scientific meetings and manage time efficiently.

4. Course Contents			
Topic	**Lecture hours**	**Practical/Clinical hours**	**Total No. of hours hours**
1- Neuroanatomy and Physiology	4	-	4
2- Case taking	4	4	8
3- Assessment of aphasia	4	2	6
4- Hemiplegia and cerebrovascular stroke	3	3	6
5- Tumors of the cerebellopontine angle especially acoustic neuroma.	4	-	4
6- Headache and migraine	9	6	15
7- epilepsy in children and adults.	4	3	7
8- Demyelinating Diseases	6	6	12
9- Intracranial Infections related to hearing loss	10	4	11
10-vertigo	4	-	4
Total	48	28	76

5. Teaching and Learning Methods	5.1. Lectures. 5.2. Practical/ case study 5.3. Self-learning activities such as use of internet and multimedia 5.4. Tutorial & regular weekly seminars, case presentation, training courses & workshops
6. Teaching and Learning Methods for students with limited Capacity	-
7. Student Assessment	

A. Student Assessment Methods	1. Written exam to assess the capability of the candidate for assimilation and application of the knowledge included in the course. Oral and clinical exam to assess the student intellectual and communication abilities regarding basic knowledge and understanding of the course topics, and to help the teaching staff to evaluate the % of achievement of the intended learning outcome of the course & practical skills
B. Assessment Schedule (Timing of Each Method of Assessment)	Assessment 1: Written exam at the end of course. Assessment 2: Oral and clinical exam.

C. Weighting of Each Method of Assessment	**Type of Assessment %** • **Written** examination (50 Marks) • **Oral** examination. (25 Marks) **Total** (75 Marks)
8. List of References	
A. Course Notes/handouts	1 –Neurology notes: prepared by staff members
B. Recommended Text Books	2- Merrit textbook of Neurology
C. Periodicals, websites	To be determined and update during the course work. 1-Neurology journal 2- www.pubmed.com

- **Program Coordinators:** Dr. Rasha Nady Saleh, Lecturer of Neurology, Faculty of medicine, Minia university

- **Head of Department**:

Prof Dr. Nermin Ali Hamdy
Professor of neurology, Faculty of medicine – Minia university
Date of last update & approval by department council: 5/3/2023.

نموذج رقم (11أ)

مسمى المقرر Course specification of neurology in MSc degree in audiology.

كود المقرر

جامعة/: ..المنيا.....

كلية /: .....الطب.....

قسم:الامراض العصبية والنفسية.....

B. Matrix of Coverage of Course ILOs By Contents

Topic	Knowledge and understanding	Intellect-ual Skills	Professional and Practical Skills	General skills
Fields of neurology	A1-A5	B1-B3	C1-C3	D1
Neuroanatomy and Physiology	A1-A5	B1-B3		D3
Case taking	A1-A5	B1-B3	C1-C3	D4
Assessment of aphasia	A1-A5		C1-c3	D5
Hemiplegia and cerebrovascular stroke	A1-A5			
Tumors of the cerebellopontine angle especially acoustic neuroma.	A1-A5	B1-B4		

Headache and migraine	A1-A5	B6	C1-C3	D1	
epilepsy in children and adults.	A1-A5				
Demyelinating Diseases	A1-A5			D2	
Intracranial Infections related to hearing loss	A1-A5	B4-B7		D5	
Vertigo	A1-A5				

B - Matrix of Coverage of Course ILOs by Methods of Teaching & Learning

Methods of Teaching & Learning	Intended Learning Outcomes (ILOs)				
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills	
	A	B	C	D	
Lecture	A1-A5				
Practical			C1-C3		
Clinical (Including grand rounds)			C1-C3		
Presentation/seminar				D1-D2	
Journal club	A1-A5			D1-D2	
Training courses & workshops	A1-A5		C1-C3		

C. Matrix of Coverage of Course ILOs by Methods of Assessment

Course Coordinator:

Methods of	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	**B. Intellectual Skills**	**C. Professional & Practical skills**	**D. General & Transferable Skills**
	A	**B**	**C**	**D**
Written exam	**A1-A5**			
Oral Exam		**B1-B7**	**C1-C3**	
Assignment				**D1-D2**

Dr. Rasha Nady

Head of Department:

Prof. Dr. Nermin Aly Hamdy.

Date of last update & approval by department Council 3/2023

"*Medical Statistics and Research methodology for Master degree in Audiology*"
2022-2023

University: Minia University

Faculty: Faculty of Medicine

Department offering the course: Public Health and Community Medicine department.

Course Specifications
It is a part of Postgraduate (MSC) Programme for ENT Department.

Programme(s) on which the course is given: First part MSC of Audiology

Major or minor element of programmes: Statistics & research design

1- Basic Course Information		
Academic Year/ level: First Part MSC , Audiology	**Course title:** Medical Statistics and Research Methodology	**Code: HE200**
Number of teaching hours: **-Lectures :**20 hours 2h / week **Practical/clinical:** 10 hours **Total:** 30 hours		
2-Overall Aims of the course		
By the end of the course the candidate must be able to: 1- Use statistical principles to improve their professional work 2-Identify how to use research methodology appropriately in researches 3-Acquiring concept of critical interpretation of data		
3- **Intended learning outcomes of course (ILOs)**		
Upon completion of the course , the candidate should be able to :		
A-Knowledge and understanding	A.1 Describe methods of sampling strategies and sample size calculation A.2 Identify types of variables, different forms of data presentation	

	A.3 Describe normal distribution curve, measures of central tendency and measures of dispersion. A.4 Define terms of research methodology A.5 Identify different study designs A.6 Explain screening tests idea and usefulness A.8 Describe different statistical tests and data analysis
B-Intellectual Skills	B.1 Describe and summarize data B.2 Select the proper test of significance for a specific data B.3Interpret selected test of significance B.4 Select appropriate research methods.
C-Professional and practical skills	C.1 Calculate different sample sizes C.2 Calculate measures of central tendency and measures of dispersion C3. Calculate sensitivity, specificity, and predictive values C.4 Plan a research proposal
D- General and transferrable Skills	D.1 Write scientific thesis D.2 Take part and work in research team to conduct a specific study D.3 Organize and manage data, including graphic and tabular presentations

5-

4-Course content			
	No. Of hours	Lecture	Practical
Statistics			
Sampling		1	
Sample size calculation		1	1
Normal distribution curve		1	
Measures of central tendency and deviation		2	2
Tests of significance		2	2
Data presentation		2	1
Research			
Introduction to research , research terminology		3	2
Study design , different types of stydy		4	2
Research proposal and principles of research		2	
Parts of literature		2	

Teaching and learning methods

4.1- Lectures: Face to face lectures, Pre-recorded video lectures
4.2- Practical lessons
4.3- Assignment
4.4- Online quizzes

6- Student assessment methods

6.1- **Written exams :**
Short essay : to assess knowledge
Commentary : to assess intellectual skills

6.2 - Oral Exams : to assess knowledge , understanding , attitude and communication

6-Weighting of assessments

Writing examination	40 % (24 marks)
Oral examination:	60 % (36 mark)
Total	100% (60 marks)

7- List of references

6.1- Course notes: - Department Books, and notes.
-Logbook

6.2- Essential books (text books)

Essential Medical Statistics, Betty R. Kirkwood and J. A. Sterne (2000), 2nd edition

Introducing Research Methodology: A Beginners Guide to Doing a Research Project

6.3- Periodicals:

1-International Journal of Public Health
2-Egyptian Journal of Community Medicine
3-Journal of Biomedical Education

6.4-Web Sites:

https://lagunita.stanford.edu/courses/Medicine/MedStats-SP/SelfPaced/about?fbclid=IwAR3nfirLM4wnuEqqUjLjk8TCR7lzPdnpGqwin06L-GjFq32a62w3j6R5s9c

7- Facilities required for teaching and learning

1. Public Health and Community Medicine skill laboratory equipped with skill tools.
2. Class rooms for theoretical lectures and tutorials.

- **Course Coordinators:**

➢ **Coordinators:**

1) **Lecturers:** Dr / Shaimma Mahmoud, Dr/ Chrestina Monir

2)Assistant coordinator: Assistant lecture Shaza Fadel

- **Head of Department**:

Professor Dr. Nashwa Nabil Kamal

Date of program specifications 1st approval by department council: 13 /5/2013.

Date of last update & approval by department council: 6/ 3 / 2023

جامعة/أكاديمية : المنيا

كلية / معهد: كلية الطب البشري

قسم :الصحة العامة

مسمى المقرر	Medical Statistics and Research methodology for Master degree in Audiology
كود المقرر	

A.Matrix of Coverage of Course ILOs by Contents

Contents (List of course topics)	Week No.	Intended Learning Outcomes (ILOs)			
		A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
		A	B	C	D
Statistics					
Sampling		A1			
Introducion to Sample Size Calculation		A1		C1	
Normal distribution curve and screening		A3 , A6		C3	
Descriptive Statistics (measures of central tendency and measures		A3	B1	C2	
Data presentation and normal distribution curve		A2	B1		D3
Tests of Significance		A8	B2 ,B3		
Research					
Introduction to research " terminology"		A4			
Study design , different types of study		A5	B4		
Research proposal and principles of research			B4	C4	D2
Parts of literatura					D1

B.Matrix of Coverage of Course ILOs by Methods of Teaching & Learning

Methods of Teaching & Learning	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	**B. Intellectual Skills**	**C. Professional & Practical skills**	**D. General & Transferable Skills**
	A	**B**	**C**	**D**
Lecture	A1,A2,A3,A4,A5, A6,A7,A8	B1,B2,B4	C1,C2,C3,C4	D1
Practical	A1,A2,A3,A8	B3,B4	C2,3	D2,D3
Assignment	A1,A3	B4	C4	D2
Online quizzes	A6,A8	B3	C1	D3

C. Matrix of Coverage of Course ILOs by Methods of Assessment

Methods of Assessment	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	**B. Intellectual Skills**	**C. Professional & Practical skills**	**D. General & Transferable Skills**
	A	**B**	**C**	**D**
Written exam	A1,A2,A5,A8	B1 , B2,B4		
Oral Exam	A4,A8,A3,A6	B1,B4,B3	C1,C2, ,C3,C4	**D1,D2,D3**

- **Course Coordinators:**

➢ **Coordinators:**

2) **Lecturers:** Dr / Shaimma Mahmoud, Dr/ Chrestina Monir

2)Assistant coordinator: Assistant lecture Shaza Fadel

- **Head of Department**:

Professor Dr. Nashwa Nabil Kamal

Date of program specifications 1st approval by department council: 13 /5/2013.

Date of last update & approval by department council: 6/ 3 / 2023

Blueprint of Statistics and research examination paper for candidates of master degree of Histology

Topic	Hours	Knowledge%	Intellectual%	%topic	Knowledge		Intellectual		Marks
					No of item	mark	No of item	mark	
Statistics	9	70%	30%	45%	**2**	**6**	**1**	**6**	**12**
Research	11	60%	40%	55%	**2**	**6**	**1**	**6**	**12**
Total	**20**			100%					**24**

- **Course Coordinators:**

➢ **Coordinators:**

3) **Lecturers:** Dr / Shaimma Mahmoud, Dr/ Chrestina Monir

2)Assistant coordinator: Assistant lecture Shaza Fadel

- **Head of Department**:

Professor Dr. Nashwa Nabil Kamal

Date of program specifications 1st approval by department council: 13 /5/2013.

Date of last update & approval by department council: 6/ 3 / 2023

نموذج رقم (16)
تقرير مقرر دراسي

Course report of MSC degree in audiology

May 2022

University: Minia

Faculty: Medicine

Department: Public Health and Preventive medicine

A-Basic Information

1- Course Ttitle and Code: 1st part MSC degree in audiology

2- Specialty: Tropical Medicine

3- Level/year (1st or 2nd part): 1st part

4- Number of courses: 1 course

5- Adopted system for selection & formation of examiners' committee:

Available	√	Not available	

6- System of external evaluation of the exam:

Available	√	Not available	

7- Number & Names of teaching staff members:

- Dr. Mahmoud EL Sherif
- Dr .Refaat Raaof
- Dr .Eman M. Mahfoz
- Dr.Emad Girgis
- Dr. Amany Edward
- Dr. Nashwa Nabil

- Dr. Eman Sameh
- Dr. Eman Ramadan
- DR .Ebtesam Esmail
- Dr. Ayman soliman
- Dr .Shimaa Anwar
- Dr. Omnia kamal
- Dr. Marwa Gamal

B- Professional Information

1- Statistical Information:

- No. of students attended/joined the course	No.	1	%	**100**
- No. of students completed the course & attended the exam	No.	1	%	**100**

- Results:

Passed:	No:		%		Failed:	No:	**0**	%	**0**
Excellent	No:	1	**%**	**100**	Very good:	No:		**%**	
Good	No:	**0**	**%**	0	Pass:	No:		**%**	

- Success percentages & distribution according to the grades of passed students:
  - Success percentages : 100%
  - Distribution :

2- Course Teaching:

- **Course topics taught**

Topic	Lecture hours/week	Practical/Clinical hours/week	Stuff member

Demography and vital statistics	2	NA	Dr. omnia Kamal
Medical statistics	2	NA	Dr.khaled hassan Dr.Tarek El Eriny Dr. Mona abo zaid
Research design	2	NA	Dr.Emad Girgis

- Total percentage of the essential course topics that actually covered: 100 %

- Obligation/commitment of the teaching staff to the specified course content:

>85%	√	**60-84 %**		**<60%**	

- The extent to which the exam covered the course topics:

>85%		**60-84 %**	√	**<60%**	

- Teaching and Learning Methods:

Lectures	√

3- Student Assessment:

Method of Assessment	Marks	%
Written examination	24	40
Oral examination	36	60
Total	60	100

4- Facilities available for Teaching:

- **Scientific references:**

Available	√	Available to some extent		Unavailable	

- **Assistant aids/tools:**

Available		Available to some extent	√	Unavailable	

- **Other materials, supplies and requirements:**

Available		Available to some extent	√	Unavailable	

5- Administrative & regulatory Constraints:

No	√	Yes	

6 – Results of student feedback as a result of course evaluation:

7- External evaluator/s comments

- البرنامج مستوفي البيانات الاساسيه و مطابق للمعايير الاكاديميه والقياسيه و يحتوي علي اهداف واضحه و المخرجات توافق الاهداف التعلم

Course Coordinators:

Dr Shimaa Mahmoud

Dr Chrestina Mounir

Head of Department: Prof Dr Nashwa Nabil

Course Specifications

Medical Ethics

University: Minia

Faculty: Medicine

Department offering the course: Forensic Medicine & Toxicology

Date of specification approval: Last date of approval: **7/11/2021**

Programme(s) on which the course is given: First part MSC

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1. Course Information

• Academic Year/level: **Post graduate; 1st master**	• **Course Title**: • Medical Ethics	• **Code**:

• Number of teaching hours:

- Lectures: **Total of 30 hours; 2 hour/week**

2. Overall Aims of the course	2016- Knowledge of the following points: 1. Identify the value of studying and practicing medicine 2. Identify the duties of doctors towards their patients, colleagues, community 3. Rules of practicing Medicine and the right of patient in medical

	care 4. Ethics of patient management and visit by doctors and others 5. Explain respect the patient's confidentiality and secrets 6. Define the characteristics of medical student and medical practitioners 7. Describe the prisoners' rights in receiving medical care 8. Identify the ethics in medical consultations among colleagues 9. Describe medical errors, negligence and legal issues 10. -Visualize the doctor's role in the society and medical culture 11. – Recognize the role of health care providers in the community 12. Describe ethics of medical research especially on human beings 13. - Explain ethics and Evidence Based medicine

Intended learning outcomes of course (ILOs):

Upon completion of the course, the student should be able to:

A- Knowledge and Understanding	A.1- To Identify the basic concept of learnin and practicing medicine from the religious and human point of view A.2- To Identify the very beneficial impressive history of medicine ; ethics related A.3- To Indicates the main principles of medical ethics A.4- To come out with an integrated approach to deal with patients , their families, community and medical staff in an ethical, legal and human manner A.5- To Identify rules in low and regulations to deal with patients in practicing medicine A.6- To Explain the standard and accredited methods of clinical research especially on human beings
B- Intellectual Skills	B.1- To master approach to patients in different situations; critical and noncritical ones B.2- To practice adequate communication skills with patients, community and colleagues B3- To be involved in medical researches on clear ethical basis B.4- To get knowledge and learn according to standard basis world wide B.5- To apply and practice medicine according to concepts of evidence based medicine B.6- Recognize common ethical dilemma and suggest a proper solution.
C- Professional and Practical Skills	C.1- To keep a high professional approach with colleagues and patients C.2- To master steps of upgrading his/her educational, academic and clinical carriers C.3- To follow the standard guidelines in managing patients C.4- To master what is called as clinical governance and auditing his

	/her Performance
D- General and transferable Skills	D.1- To Identify how to respect his/herself and the profession D.2- To have adequate behavior and skill communications with community D.3- To enjoy life and live like others sharing social and national affairs D.4- To build the capacity of helping people and share in upgrading their culture and education D.5- To Identify how to participate in the national and social affairs and responsibilities

Course Specifications of audiovestibular medicine

University: Minia

Faculty: Medicine

ENT department (audiovestibular unit) :Department

48. Course Information

Academic Year/level:

2022-2023

(1)assessment Hearing and balance :Course Title •

Code: HE 200

Number of teaching hours:

- **Lectures:** Total of **15** hours;1.5 hours/week

- **Clinical:**Total of45 hours; 3hours/week

- **Field:** Total of 150 hours; 10 hours/week

49. Overall Aims of the course

By the end of the course the student must be able to:

1. Delivering basic and updated theoretical knowledge in the field of audiolo-vestibular medicine with special regards to evidence based rules as well as international and local medical guidelines.

2.Implementing and reinforcing both practical and research medical ethical rules.

3.Enhancing self-education abilities and adopting it as a way of continued medical education.

4.Refining of the clinical skills based on a systematic approach to diagnose audio-vestibular disorders and to manage them efficiently and effectively.

5.Developing practical and procedural skills that are necessary in the practice. Awareness of the new tools and how to utilize and analyze their results to help the profession.

6.Develop skills in the sound care of tools applied in diagnosis of audiological disorders and ideal management of troubles related to these tools.

7.Improving communication and expression skills of candidates.

50. Intended learning outcomes of course (ILOs):

Upon completion of the course, the student should be able to:	
Knowledge and Understanding	A1. Recognize clinical diagnosis of diseases affecting the audio- vestibular system. A2.Investigate tools necessary for the diagnosis of the audio- vestibular disorders. A3.Identify clinical skills necessary for diagnosis of audio-vestibular diseases. A4.Recognize medically related disorders and critical care in urgent disorders .
Z- **Intellectual Skills**	B1. Specify medical dilemmas and complexities and how to solve them. B2.Make conclusions and be able of scientific discussion. B3.Select from different choices based on multiple determining factors as social, scientific, economic etc....
AA- **Professional and Practical Skills**	C1. C1.Take a focused medical history with proper analysis and conclusions. Examine properly the audio-vestibular system with an exact follow of the standard clinical rules and interpret signs individually. c.2 C3.Integrate data from the history and the examination. c.3 C4.Ask for the proper investigations to be done for a given medical problem. c.4 C5.Put a diagnosis and differential diagnosis of different cases.
- **General and transferable Skills**	D1. Understand the importance of continuing professional development. D2.Demonstrate knowledge of the importance of ethical approval and patient consent for clinical research. D3.Work cooperatively and show respect for other opinions. Gain communication skills with workers, nurses, juniors, professors, peers, patients and their care givers. D4.Master computer skills in research, data base filling and preparation of presentation. D5.Use computer efficiently in solving medical problems.

51. Course Contents

Topic	Lecture hours/week	Practical/Clinical hours/week	Total No. of hours
Calibration	0.5		6
Basic audiological evaluation	0.5		6
Pure tone audiometry (air conduction)	2		15
Pure tone audiometry (bone conduction)	1		9

Speech audiometery	2		15
Immittance testing (tympanometry)	1		9
Immittance testing (acoustic reflex)	1		9
Audiological evaluation of adults	1		9
Pediatric evaluation	1		9
Non organic hearing loss	0.5		6
XI- Ocupational and recreational hearing disorders	1		9
Geriatric hearing loss	0.5		6
Tinnitus assessment and management	1		10
Balance disorders (definition, prevalence & impact)	1		10
Assessment by history taking	1		9.5
Total	15 hrs hr/wk 1.5	45 hrs clinical---3 hrs/wk 137.5 hrs fields---10 hrs/wk	137.5 hrs

52. Teaching and Learning Methods	Lecture, Self directed learning, Clinical , Field (practical)
53. Teaching and Learning Methods forstudents with limitedCapacity	

54. Student Assessment

. **Student Assessment Methods**

1. MCQs to assess knowledge & understanding.
2. Problem solving questions to assess intellectual & analytical skills.
3. Essay questions to assess the ability of the student to organize their knowledge &

	discuss issues related to a certain topics. 4. Oral exam to assess knowledge, general & tranferable skills. 5. Clinical exam to assess competence in decision making, analytical skills and choice of management plan.
T. **Assessment Schedule (Timing of Each Method of Assessment)**	Final exam at the end of third year
U. **Weighting of Each Method of Assessment**	Written 80 Oral 40 Clinical 80 Total 200

55. List of References

U. **Course Notes/handouts**	1. Course Notes (paper and / or electronic)
V. **Essential Books**	2. Essential Books (Textbooks) : - Handbook of Clinical Audiology, Katz, J (2002, 2010,2016) - Audiology (Diagnosis and treatment, Michael Valente, 2000)
W. **Periodicals, websites**	

Course Coordinator/s:

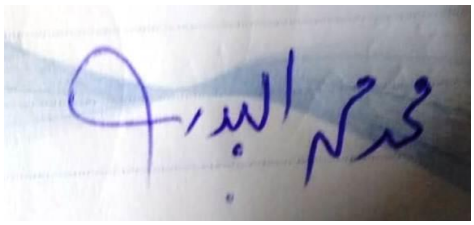
Dr.Rafeek Mohamed Abdelkader

Dr.Dalia Fahim Mohammed

Dr.Amira Mohamed fawzy

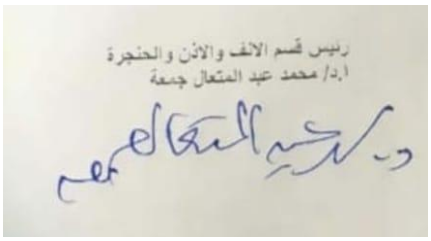
Head of the Audio-vestibular :

Prof. Dr. Mohammed Mohammed Elbadry



Head of Department:

Prof. Dr. Mohammed Abd-Elmotaal



Date of last update& approval by department Council:

6/ 3/2023

Date of last update& approval by department Council:

6 / 3/ 2023

Hearing and balance assessment(1)

كود المقرر	HE100

جامعة/أكاديمية : المنيا

كلية / معهد: الطب

قسم: طب السمع والاتزان

A. Matrix of Coverage of Course ILOs By Contents

Contents (List of course topics)	Week No.	Intended Learning Outcomes (ILOs)			
		A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
		A	B	C	D
Calibration	1	a2,a3			D5
Basic audiological evaluation	2	A2,A3		C2	D5
Pure tone audiometry (air conduction)	3	A2,A3		C2	D5
Pure tone audiometry (bone conduction)	4	A2,A3		C2	D5
Speech audiometery	5	A2,A3		C2	D5
Immittance testing (tympanometry)	6	A2,A3		C2	
Immittance testing (acoustic reflex)	7	A2,A3		C2	
Audiological evaluation of adults	8	A2,A3	B1	C,1C2,C3,C4,C5	D5

Pediatric evaluation	**9**	**A2,A3**	**B1**	**C1,C2,C3,C4,C5**	**D5**
Non organic hearing loss	**10**	**A1,A3**	**B1**	**C1**	
Occupational and recreational hearing disorders	**11**	**A1,A3**	**B1**	**C1,C2,C3,C4,C5**	
XII- Geriatric hearing loss	**12**	**A1,A3**	**B1**		
Tinnitus assessment and management	**13**	**A1,A3,A4,A5**		**C2,C3**	
III- Assessment by history taking	**16**	**A3**	**B2**	**C1,C3**	**D2,D3**
Central and peripheral Balace disorders:	**26**	**A1,A3,A4,A5**	**B3**		

B. matrix of coverage of course ILOs by methods of Teaching & Learning

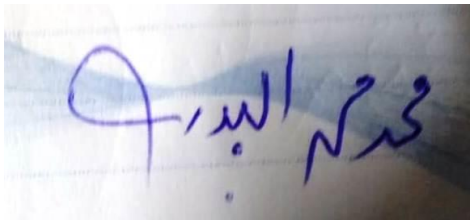
Methods of Teaching & Learning	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Lecture	A1,A2,A3,A4	B1,B2,B3		
Practical			C1,C2,C3,C4,C5	D1,D2,D3,D4,D5
Presentation/seminar		B2		D3,D4,D5
Group discussion		B2,B3	C5	D1,D3,

C. **Matrix of Coverage of Course ILOs by Methods of Assessment**

Methods of Assessment	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	**B. Intellectual Skills**	**C. Professional & Practical skills**	**D. General & Transferable Skills**
	A	**B**	**C**	**D**
Written exam	**A1,A3,A4**	**B1,B3**		
Practical exam		**B2**	**C1,c2,c3c4,c5**	
Oral Exam	**A1,a3,a4**	**B1,b2,b3**		**D3**

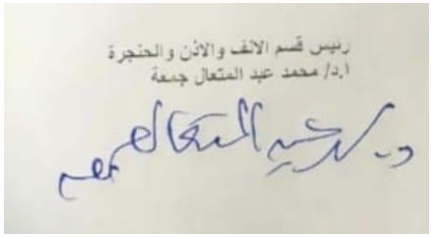
Head of the Audio-vestibular :

Prof. Dr. Mohammed Mohammed Elbadry



Head of Department:

Prof. Dr. Mohammed Abd-Elmotaal



Course Specifications of audiovestibular medicine

University: Minia

Faculty: Medicine

Department: ENT department (audiovestibular unit)

56. Course Information

Academic Year/level: 2022-2023

Code: HE 200

Course Title: Hearing & Balance assessment (2)

Number of teaching hours:

- **Lectures:** Total of **15** hours;1.5 hours/week
- **Clinical:** Total of45 hours; 3hours/week
- **Field:** Total of 137.5 hours; 10 hours/week

57. Overall Aims of the course	*By the end of the course the student must be able to:* 1. Improve the knowledge and skills by providing clinical and practice training. 2.Providing adequate and state of art knowledge of hearing and balance tests. 3.Utilizing hands on and the lab for self intended training.

58. Intended learning outcomes of course (ILOs):

Upon completion of the course, the student should be able to:

AC- **Knowledge and Understanding**	A1. Recognize the indications & needs for tests. A2.Understand the various techniques for each of the tests. A3.Recognize and get training to use the audiological and vestibular instruments in labs. A4.Recognize the possible hazards and pitfalls and the preventive precautions and measures to avoid or deal with them.

AD- **Intellectual Skills**	A5.Identify the interpretation of various test findings. A6.Correlate the results of various tests to help in proper diagnosis and management. B1. Choose the proper test for every patient. B2.Acquire proper assessment of test findings. B3.Acquire proper decision making for difficult situations
AE- **Professional and Practical Skills**	C1. Recognize and interpret the basic principles. C2.Select appropriate instrument and protocol for every patient. C3.Perform the evaluation within reasonable time with reliable test results
AF- **General and transferable Skills**	D1. Acquire the ability of arranging sets for teaching through hands on and labs D2.Understand the importance of continuing professional development. D3.Demonstrate knowledge of the importance of ethical approval and patient consent for clinical research. D4.Work cooperatively and show respect for other opinions.

59. Course Contents

Topic	Lecture hours/week	Practical/Clinical hours/week	Total No. of hours
Electrophysiological tests: Introduction & Principles	1		8
Auditory Brainstem Response	1		8
Electrocochleography	0.5		6
Middle latency response	0.5		6
Cortical evoked potentials	0.5		6
Event related potentials	0.5		6
Electrophysiological tests :Clinical evaluation in adults	o.5		6
Electrophysiological tests: Clinical applications in pediatrics	0.5		6
Otoacoustic emissions: Principles and Clinical applications)	1		8
Newborn hearing screening.	1		8

Screening in children	1		8
Industrial hearing screening	0.5		5
Industrial hearing conservation program	0.5		5
Central auditory tests: Introduction and Principles	1		7
Central auditory tests: Evaluation of adults	0.5		6
Central auditory tests: Evauation of children	0.5		6
Central auditory tests: Protocol for intervention	0.5		6
Balance tests: Introduction & Principles	1		7
Rotational chair	0.5		6
Dynamic posturography	1		7
Clinical applications & Protocols	1		6.5
Total	15hrs hrs/wk 1.5	45 hrs clinical---3 hrs/wk 137 hrs fields---10 hrs/wk	137.5 hrs

60. Teaching and Learning Methods	Lecture, Self directed learning, Clinical , Field (practical)
61. Teaching and Learning Methods forstudents with limitedCapacity	

62. Student Assessment

V. **Student Assessment Methods**	1. MCQs to assess knowledge & understanding. 2. Problem solving questions to assess intellectual & analytical skills. 3. Essay questions to assess the ability of the student to organize their knowledge & discuss issues related to a certain topics. 4. Oral exam to assess knowledge, general & tranferable skills. 5. Clinical exam to assess competence in decision making, analytical skills and choice of management plan.

W. **Assessment Schedule (Timing of Each Method of Assessment)**	Final exam at the end of third year
. **Weighting of Each Method of Assessment**	Written 80 Oral 40 Clinical 80 Total 200

63. List of References

X. **Course Notes/handouts**	**Course Notes (paper and / or electronic)**
Y. **Essential Books and Recommended Text Books**	**Essential Books (Textbooks) :** **:Basic References** - Introduction to Audiology (with CD-ROM) (10th Edition), Frederick H. Martin and John Greer Clark (9, 2012). and Larry E. Humes (Hardcover , 2008) Fred H. Bess ,Audiology: The Fundamentals - .Mar 2009 ,Stanley A. Gelfand,Essentials of Audiology - Pediatric Audiology, Book and DVD: Diagnosis, Technology and Management, Jane Madell and Carol Flexer,April 2019. **Electrophysiological references:-** - Hall, III, J. W. (2006) New Handbook of Auditory Evoked Responses. Boston: Allyn and Bacon. ISBN 0-205-36104-8. - Roeser, R. J., Valente, M., Hosford-Dunn, H. (2000). Audiology: Diagnosis. New York: Thieme Medical Publishers, Inc. Chapters 3 and 19. - Jacobson, J. T. (1994). Principles & Applications in Auditory Evoked Potentials. Boston: Allyn and Bacon. - Hall, III, J. W., Mueller, III, H. G. (1997). Audiologists' Desk Reference, Volume 1, Diagnostic Audiology, Principles, Procedures, and Practices. San Diego: Singular Publishing Group, Inc. Articles: - Katz,J (2002. 2010,2016) handbook of of clinical audiology. **Otoacoustic emission references:-** handbook of of clinical audiology (2016,Katz,J (2002. 2010

Central test references

-:Balance tests handbook of of clinical audiology (2016,Katz,J (2002. 2010

Vestibular and Balance References

- Scott Brown 2018

- Shepard,N . & Telian,S. (1997): Practical management of the balance diorders.

- Herdmann,S.(2007) Vestibular rehabilitation. Third edition

- Vestibular Disorders: A Case Study Approach to Diagnosis and Treatment, Joseph Furman, Stephen Cass, and Susan Whitney, Jan 2010)

Z. **Periodicals, websites**

Course Coordinator

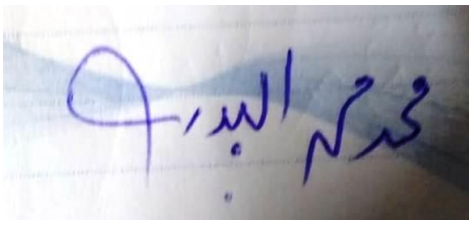
Dr.Rafeek Mohamed Abdelkader

Dr.Dalia Fahim Mohammed

Dr.Amira Mohamed fawzy

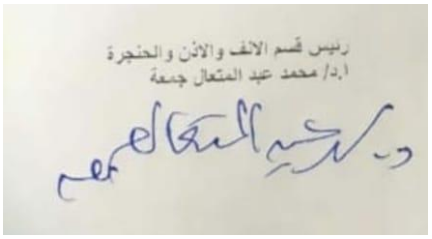
Head of the Audio-vestibular :

Prof. Dr. Mohammed Mohammed Elbadry



Head of Department:

Prof. Dr. Mohammed Abd-Elmotaal



Date of last update& approval by department Council:

6/ 3/2023

مسمى المقرر	**Audio-vestibular medicine (Second part) <u>Hearing assessment & Balance (2)</u>**
كود المقرر	HE200

جامعة/أكاديمية : المنيا

A. Matrix of coverage of course ILOs by contents

Contents (List of course topics)	Week No.	Intended Learning Outcomes (ILOs)			
		A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
		A	B	C	D
Electrophysiological tests: Introduction & Principles	1	A1,a2,a3,a4,a5,a6	B1,b2,b3	C1,c2,c3	D2,d3,d4
Auditory Brainstem Response	2	A1,a2,a3,a4,a5,a6	B1,b2,b3	C1,c2,c3	D2,d3,d4
Electrocochleography	3	A1,a2,a3,a4,a5,a6	B1,b2b3	C1,c2,c3	D2,d3,d4
Middle latency response	4	A1,a2,a3,a4,a5,a6	B1,b2,b3	C1,c2,c3	D2,d3,d4
Cortical evoked potentials	5	A1,a2,a3,a4,a5,a6	B1,b2,b3	C1,c2,c3	D1,d3,d4
Event related potentials	6	A1,a2,a3,a4,a5,a6	B1,b2,b3	C1,c2,c3	D1,d2,d3,d4
Auditory steady state response	7	A1,a2,a3,a4,a5,a6	B1,b2,b3	C1,c2,c3	D1,d2,d3,d4
Speech evoked potentials	8	A1,a2,a3,a4,a5,a6	B1,b2,b3	C,1C2,C3	D1,d2,d3,d4

Electrophysiological tests :Clinical evaluation in adults	**9**	**A1,a2,a3,a4,a5,a6**	**B1,b2,b3**	**C1,C2,C3**	**D2,d3,d4**
Electrophysiological tests: Clinical applications in pediatrics	**10**	**A1,a2,a3,a4,a5,a6**	**B1,b2,b3**	**C1,c2,c3**	**D2,d3,d4**
Otoacoustic emissions: Principles and Clinical applications)	**11**	**A1,a2,a3,a4,a5,a6**	**B1,b2,b3**	**C1,C2,C3**	**D2,d3,d4**
Newborn hearing screening.	**12**	**A1,a2,a3,a4,a5,a6**	**B1,b2,b3**	**C1,C2,C3**	**D2,d3,d4**
Screening in children	**13**	**A1,a2,a3,a4,a5,a6**	**B1,b2,b3**	**C1,C2,C3**	**D2,d3,d4**
Industrial hearing screening	**14**	**A1,a2,a3,a4,a5,a6**	**B1,b2,b3**	**C1,C2,C3**	**D2,d3,d4**
Industrial hearing conservation program	**15**		**B3**		**D2,d3,d4**
Central auditory tests: Introduction and Principles	**16**	**A1,a2,a3,a4,a5,a6**	**B1,b2,b3**	**C1,C2,C3**	**D2,d3,d4**
Central auditory tests: Evaluation of adults	**17**	**A1,a2,a3,a4,a5,a6**	**B1,b2,b3**	**C1,C2,C3**	**D2,d3,d4**
Central auditory tests: Evaluation of children	**18**	**A1,a2,a3,a4,a5,a6**	**B1,b2,b3**	**C1,C2,C3**	**D2,d3,d4**
Central auditory tests: Protocol for intervention	**19**	**A6**	**B1,b2,b3**	**C1,C2,C3**	**D2,d3,d4**

Balance tests: Introduction & Principles	**20**	**A1,a2,a3,a4,a5,a6**	**B1,b2,b3**	**C1,C2,C3**	**D2,d3,d4**
Office Balance testing	**21**	**A1,a2,a3,a4,a5,a6**	**B1,b2,b3**	**C1,C2,C3**	**D2,d3,d4**
ENG/VNG	**22**	**A1,a2,a3,a4,a5,a6**	**B1,b2,b3**	**C1,C2,C3**	**D2,d3,d4**
VAT VEMP	**22**	**A1,a2,a3,a4,a5,a6**	**B1,b2,b3**	**C1,C2,C3**	**D2,d3,d4**
Rotational chair	**23**	**A1,a2,a3,a4,a5,a6**	**B1,b2,b3**	**C1,C2,C3**	**D2,d3,d4**
Dynamic post urography	**23**	**A1,a2,a3,a4,a5,a6**	**B1,b2,b3**	**C1,C2,C3**	**D2,d3,d4**
Clinical applications & Protocols	**24**	**A5,a6**	**B1,b2,b3**	**C1,C2,C3**	**D2,d3,d4**

B. Matrix of Coverage of Course ILOs by Methods of Teaching & Learning

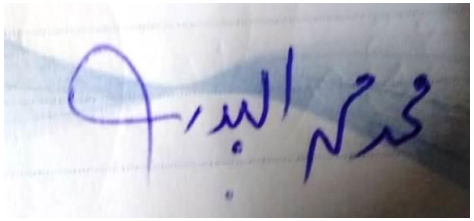
Methods of Teaching & Learning	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Lecture	A1,a2,a4,a5,a6	B1,B2,B3		
Practical			C1,C2,C3	D1,D2,D3,D4
Presentation/seminar				D1,d2,d4
Group discussion		B1,B2,B3		D1,d2,D3

C. **Matrix of Coverage of Course ILOs by Methods of Assessment**

Methods of Assessment	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	**B. Intellectual Skills**	**C. Professional & Practical skills**	**D. General & Transferable Skills**
	A	**B**	**C**	**D**
Written exam	**A1,a4,a5,a6**	**B1,B3**		
Practical exam		**B1,b2,b3**	**C1,c2,c3c4,c5**	
Oral Exam	**A1,a2,a3,a4,a5 ,a6**			**D2,D3**

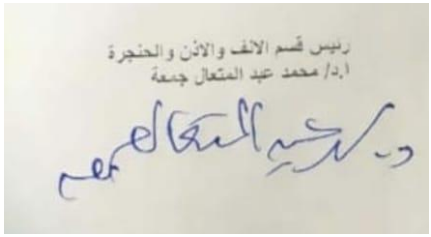
Head of the Audio-vestibular :

Prof. Dr. Mohammed Mohammed Elbadry



Head of Department:

Prof. Dr. Mohammed Abd-Elmotaal



audiovestibular medicine of Course Specifications

University: Minia

Faculty: Medicine

Department: **ENT department (audiovestibular unit)**

64. Course Information

Academic Year/level: 2022-2023	**Course Title: Rehabilitation of hearing and balance and hearing aids**	**Code**: HE 200

Number of teaching hours:

- **Lectures:** Total of **15** hours; **3** hours/week
- **clinical:** Total of 45 hours; 3.5 hours/week
- **Field:** Total of 85 hours; 10 hours/week

65. Overall Aims of the course

By the end of the course the student must be able to:

1. To know the theoretical and methodological approaches to aural rehabilitation of adults and children with hearing impairment.

2.To prepare a trained rehabilitative audiologist efficient to offer advanced techniques in aural rehabilitation including family-based management, multidiscipline approaches and complex assistive devices.

3.To develop teaching skills in the field of aural and vestibular rehabilitation.

1. To give essential knowledge of hearing aids and audiological equipment.

2. To help to give the candidate the confidence to understand the prinicples of hearing aids and audiological equipment.

3. To get theoretical, clinical and practical information on hearing aid selection, fitting, adjustment and evaluation.

4. To get theoretical, clinical and practical knowledge on cochlear implants.

66. Intended learning outcomes of course (ILOs):

Upon completion of the course, the student should be able to:

AG- **Knowledge and Understanding**	A1. Know the basic communication process A2.Understand the concept of intervention in infants, children and adults. A3.Acquire in-depth knowledge in various methods of auditory training A4.Understand the different mechanisms of recovery of the vestibular system and how they impact the course and content of rehabilitation. A5.Acquire the knowledge necessary to select the appropriate rehabilitation programs for vestibular and balance problems. **a.1** Understand the theory and terminology of hearing aids & cochlear implants. **a.2** Understand the basic properties of hearing aids & cochlear implants. Clear understanding of the relationship between signal processing and characteristics of the damaged cochlea. **a.4** Outline the principles of hearing aid & cochlear implant function and evaluation of its performance. List the indications for prescribing hearing aids & cochlear implants in adults and children.
AH- **Intellectual Skills**	B1. Plan different rehabilitation strategies & decide type of devices for audio-vestibular and communicative disorders. B2.Implement structured counseling tools and communication strategies in rehabilitation **b.1** Identify the electroacoustic characteristics of hearing aids. **b.2** Describe the hearing aids suitable for every patient Understand the indications for prescribing specific electroacoustic characteristics of hearing aids. **b.4** State the steps for hearing aid fitting and adjustment. **b.5** Discuss the basic methods of calculating hearing aid gain and output (formulae) and the advantages and disadvantages of the different methods. **b.6** Summarize the steps for evaluation of hearing aid performance.

AI- **Professional and Practical Skills**	C1. Formulate an appropriate rehabilitation plan including measurable goals for hearing-impaired subjects. C2.Develop, implement and measure the progress of an intervention program based on examination, findings and knowledge. c.1 Identify different types of hearing aids. c.2 Properly measure, adjust and evaluate different types of hearing aids. c.3 Verify the hearing aid performance. c.4 Know and select the suitable type of hearing aid for each patient c.5 Know and select the suitable type of hearing aid to treat different patients.
AJ- **General and transferable Skills**	D1. Prepare & share in scientific presentations & workshops. D2.Acquire time management skills in rehabilitation planning and implementation Maintain honesty and integrity in all interactions with teachers, colleagues and others with whom physicians must interact in their professional lives. Recognize the scope and limits of their role as students as well as the necessity to seek and apply collaboration with other workers. Demonstrate knowledge of the importance of ethical approval and patient consent for clinical research. Demonstrate knowledge of the importance of ethical approval and patient consent for clinical research. d.5 Work cooperatively and show respect for other opinions. d.6 Appraise responsibility towards work.

67. Course Contents

Topic	Lecture hours/week	Practical/Clinical hours/week	Total No. of hours
Rehabilitative needs of children	1		5
Rehabilitative needs of adults	1		5
Rehabilitative approaches: Principles	1		5
Auditory training methods	1		5

Speech reading methods	1		5
Manual communication	0.5		4
Total communication	1		5
Measures of outcome of a rehabilitation program	1		5
Types and components of hearing aids & cochlear implants.	1		5
Electro acoustic characteristics of hearing aids	0.5		4
Signal processing in hearing aids.	1		5
Hearing aid coupling system	0.5		4
Candidates for hearing aids	0.5		4
Hearing aid selection and fitting	1		5
Verification of hearing aid performance	1		5
Counselling issues in hearing aid fitting	0.5		4
Pediatric hearing aid fitting.	1		5
Cochlear implant selection criteria	0.5		5
Total	**15 hrs** **hrs/wk 3**	**Clinical hrs -- 3.5hrs/wk** **Field hrs-- 10hrs/wk**	**85 hrs**

68. Teaching and Learning Methods	Lecture, Self directed learning, Clinical , Field (practical)
69. Teaching and Learning Methods forstudents with limitedCapacity	

70. Student Assessment

Y. **Student Assessment Methods**

	1. MCQs to assess knowledge & understanding. **2.** Problem solving questions to assess intellectual & analytical skills. **3.** Essay questions to assess the ability of the student to organize their knowledge & discuss issues related to a certain topics. **4.** Oral exam to assess knowledge. **5.** Clinical exam to assess competence in decision making, analytical skills and choice of management plan.
٪. **Assessment Schedule (Timing of Each Method of Assessment)**	Final exam at the end of third year
AA. **Weighting of Each Method of Assessment**	Written50 Oral 75 Total 125

71. List of References

AA. **Course Notes/handouts**	Course Notes (paper and / or electronic)
AB. **Essential Booksand Recommended Text Books**	Foundations of Aural Rehabiliations by Nancy Tye-Murray 1998 Dillon, Harvey (2001). Hearing Aids. Thieme Publishers. Katz, J. (2002, 2010,2016) Handbook of clinical audiology. Cochlear Implant: (Niparko, 2000). .Neck Surgery 2005 & Head & Cumming's otolaryngology
AC. **Periodicals, websites**	

Course Coordinator/s:

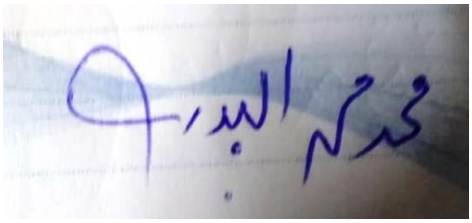
Dr.Rafeek Mohamed Abdelkader

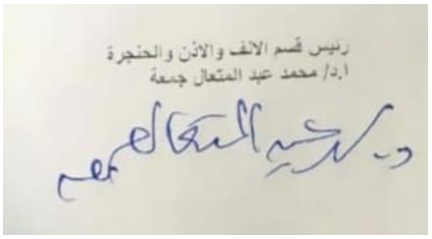
Dr.Dalia Fahim Mohammed

Dr.Amira Mohamed fawzy

Head of the Audio-vestibular : **Head of Department:**

Prof. Dr. Mohammed Mohammed Elbadry Prof. Dr. Mohammed Abd-Elmotaal





Date of <u>last update</u>& approval by department Council:

6 / 3 / 2023

• Rehabilitation of hearing and Balance	مسمى المقرر
HE200	كود المقرر

جامعة/أكاديمية : المنيا

كلية / معهد: الطب

قسم: طب السمع والاتزان

A. Matrix of Coverage of Course ILOs By Contents

Contents (List of course topics)	Week No.	Intended Learning Outcomes (ILOs)			
		A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
		A	B	C	D
Rehabilitation of hearing	1	A1	B1,b2	C1	D1,D2

Rehabilitative needs of children	**2**	**A2,a3**	**B1,b2**	**C1**	**D1,D2**
Rehabilitative needs of adults	**3**	**A2,a3**	**B1,b2**	**C1**	**D1,D2**
Rehabilitative approaches: Principles	**5**	**A2,a3**	**B1,b2**	**C1**	**D1,D2**
Auditory training method	**8**	**A1,a2,a3**	**B1,b2**	**C1**	**D1,D2**
Speech reading methods	**9**	**A1,a3**	**B1,b2**	**C1**	**D1,D2**
Manual communication	**10**	**A1**	**B1,b2**	**C1**	**D1,D2**
Total communication	**11**	**A1**	**B1,b2**	**C1,c2**	**D1,D2**
Measures of outcome of a rehabilitation program	**12**	**A1,a2,a3,**	**B1,b2**	**C1,c2**	**D1,D2**

B.Matrix of Coverage of Course ILOs by Methods of teaching and learning

Methods of Teaching & Learning	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Lecture	A1,a2,a3,a4,a5	B1,B2		
Practical			C1,c2	D2
Presentation/seminar		B2		D1,d2
Group discussion		B1,b2		D1,d2

C. **Matrix of Coverage of Course ILOs by Methods of Assessment**

Methods of Assessment	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	**B. Intellectual Skills**	**C. Professional & Practical skills**	**D. General & Transferable Skills**
	A	**B**	**C**	**D**
Written exam	**A1,a2,a3,a4,a5**	**B1**		
Practical exam			**C1,c2,c3c4,c5**	**D2**
Oral Exam	**A1,a3,a4**	**B1**		

مسمى المقرر	
• Hearing aids	
كود المقرر	200HE

جامعة/أكاديمية : المنيا

كلية / معهد: الطب

قسم: طب السمع والاتزان

A.Matrix of Coverage of Course ILOs By Contents

Contents	Week No.	Intended Learning Outcomes (ILOs)

		A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
		A	B	C	D
Types and components of hearing aids	**1 , 2**	**A1,a2**	**B1**	**C1,C2**	**D1,d2,d3,d4,d5**
Electro acoustic characteristics of hearing aids	**3**	**A1,a2**	**B3**	**C1,C2**	**D1,d2,d3,d4,d5**
Signal processing in hearing aids.	**4**	**A3**	**B1**	**C1,C2**	**D1,d2,d3,d4,d5**
Hearing aid coupling system	**5**	**A5**	**B1,b3,b4,b5**	**C1,C2**	**D1,d2,d3,d4,d5**
Candidates for hearing aids	**6**	**A5**	**B2**	**C4,C5**	**D1,d2,d3,d4,d5**
Hearing aid selection and fitting	**7**	**A4**	**B2,b4**	**C2**	**D1,d2,d3,d4,d5**
Verification of hearing aid performance	**8**	**A4**	**B4,b5,b6**	**C3**	**D1,d2,d3,d4,d5**
Counselling issues in hearing aid fitting	**9**		**B1,b2,b3**	**C4,C5**	**D1,d2,d3,d4,d5**
Pediatric hearing aid fitting.	**10**	**A5,a4**	**b2**	**C4,C5**	**D1,d2,d3,d4,d5**

Cochlear implant : selection criteria	**13**	**A5**	**B2**	**C4,C5**	**D1,d2,d3,d4,d5**
Cochlear implant : Devices	**14**	**A1,a1,a3**	**B1,B2**	**C1,C2,C3**	**D1,d2,d3,d4,d5**
Cochlear implant : Programming	**15**	**A3**	**B4,B5,B6**	**C1,C2,C3**	**D1,d2,d3,d4,d5**
Implantable Hearing Aids	**16**	**A1,a2,a3**	**B1,B2,B6**	**C1,C2,C3,C4,C5**	**D1,d2,d3,d4,d5**

Methods of Teaching & Learning	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Lecture	A1,a2,a3,a4,a5	B1,b2,b3,b4,b5,b6		
Practical			C1,C2,C3,C4,C5	D1,d2,d3,d4,5
Presentation/seminar	A1,a2,a3,a4,a5			D5
Group discussion		B2,B3	C5	D2,d4,d5

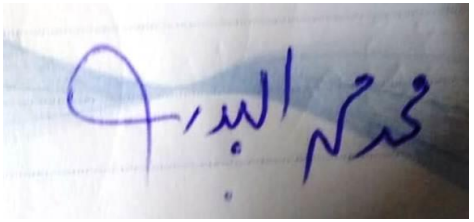
ix of coverage of course ILOs by Methods of Teaching& Learning

c. **Matrix of Coverage of Course ILOs by Methods of Assessment**

Methods of Assessment	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	**B. Intellectual Skills**	**C. Professional & Practical skills**	**D. General & Transferable Skills**
	A	**B**	**C**	**D**
Written exam	**A1,a2,a3,a4,a5**	**B1,b2,b3,b4,b5,b6**		
Practical exam			**C1,c2,c3c4,c5**	**D5**
Oral Exam	**A1,a2,a3,a4,a5**			**D3**

Head of the Audio-vestibular :

Prof. Dr. Mohammed Mohammed Elbadry



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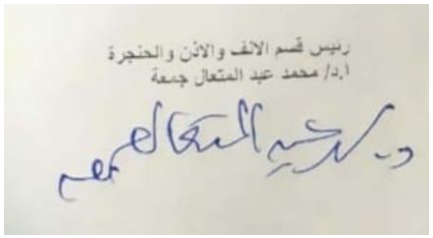

Course Specificatation of audiovestibular medicine

University: Minia

Faculty: Medicine

ENT department (audiovestibular unit) :Department

72. Course Information

Academic Year/level:

2022-2023

ENT :Course Title •

Code: HE 200

Number of teaching hours:

- **Lectures:** Total of **7.5**hours; **1.5** hours/week

- **Practical/clinical:**Total of 15 hours; 1.5 hours/week

73. Overall Aims of the course	*By the end of the course the student must be able to:* 1. To prepare physicians, specialized in audiology, to offer a high quality and efficient service in diagnosis and management of subjects with otologic disorders.

74. Intended learning outcomes of course (ILOs):

Upon completion of the course, the student should be able to:

AK- **Knowledge and Understanding**	**a.1** Recognize and describe diseases of the external, middle and inner ear. **a.2** Recognize and describe diseases of the nasopharynx.
AL- **Intellectual Skills**	**b.1** B1. Identify subjects with otologic disease and decide the proper investigations. : Plan & apply comprehensive diagnostic and treatment services for patients with otologic disorders. **b.3** Identify subjects with nasopharyngeal diseases and to direct them to proper investigations and management by ENT specialist.
AM- **Professional and Practical Skills**	**c.1** C1. Select the diagnostic approaches which will be most appropriate and informative in a given clinical situation related to otologic problems. **c.2** Interpret the audiological investigations and correlate their findings with otological clinical and theoretical knowledge.

	c.3 Select appropriate management approach.
AN- **General and transferable Skills**	d.1 To prepare & share in scientific presentations & workshops in the field of otology.

75. Course Contents

Topic	Lecture hours/week	Practical/Clinical hours/week	Total No. of hours
External ear diseases: diagnosis & management	1		20
Middle Ear diseases: diagnosis & management	2		20
Medical treatment of inner ear diseases	1.5		20
Diseases of the nasopharynx	1		20
Tumors of petrous bone	1		20
Trauma	1		20
Total	7.5 hrs hrs /wk 1.5	15 hrs 1.5 hrs/wk	120 hrs

76. Teaching and Learning Methods	**: Lecture, C: Clinical or Practical and SDL: Self directed learning**
77. Teaching and Learning Methods forstudents with limitedCapacity	

78. Student Assessment

AB. **Student Assessment Methods**	Essay questions to assess the ability of the student to organize their discuss issues related to a certain topic & knowledge Clinical exam
AC. **Assessment Schedule (Timing of Each Method**	

of Assessment)	At the end of third year
AD. **Weighting of Each Method of Assessment**	Witten 70 Oral 55 Clinical 50 Total 175

79. List of References

AD. **Essential Booksand Recommended Text Books**	Essential Books (Textbooks) : Cumming's Otolaryngology- Head and neck surgery, Charles W. Cummings, M.D., 2010, Mosby, Inc Scott-Brown Othorhinolaryngology – Head & Neck Surgery, Michael Gleeson, 2008, Edward Arnold, ltd**.**
AE. **Periodicals, websites**	

Course Coordinator/s:

Dr.Rafeek Mohamed Abdelkader

Dr.Dalia Fahim Mohammed

Dr.Amira Mohamed fawzy

Head of the Audio-vestibular :

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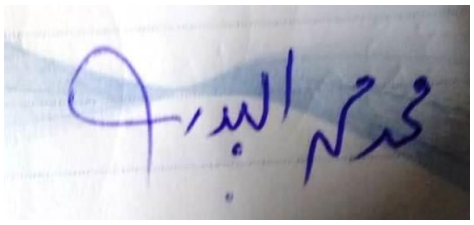

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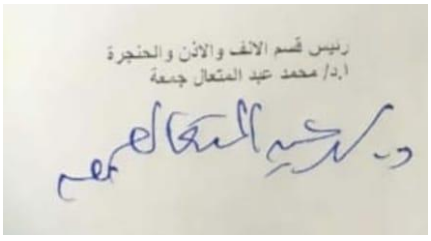

Date of last update& approval by department Council:

6/3 / 20

جامعة/أكاديمية : المنيا

كلية / معهد: الطب

مسمى المقرر	
• ENT	

Intended Learning Outcomes (ILOs)	No.	Week

قسم: طب السمع والاتزان

Methods of Teach		Intended Learning Outcomes (ILOs)			
		A	B	C	D
External ear diseases: diagnosis & management	1	A1	B1,b2	C1,c2,c3	D1
Middle Ear diseases: diagnosis & management	2	A1	B1,b2	C1,c2,c3	D1
Medical treatment of inner ear diseases	3	A1	B1,b2	C1,c2,c3	D1
Diseases of the nasopharynx	4	A2	B3	C1,c2,c3	D1
Tumors of petrous bone	5	A1	B1,b2	C1,c2,c3	D1
Trauma	6	A1	B1,b2	C1,c2,c3	D1

B.Matrix of coverage of course ILOs by Methods of Teaching& Learning

	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Lecture	A1,A2	B1,B2,B3		
Practical			C1,C2,C3	D1
Presentation/seminar				
Group discussion			C1,c2,c3	D1,D3,

c. **Matrix of Coverage of Course ILOs by Methods of Assessment**

Methods of Assessment	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Written exam	A1,a2	B1,b2,b3		
Practical exam		B2	C1,c2,c3	D1
Oral Exam	A1,a3,a4	B1,b2,b3		D1

Head of the Audio-vestibular :

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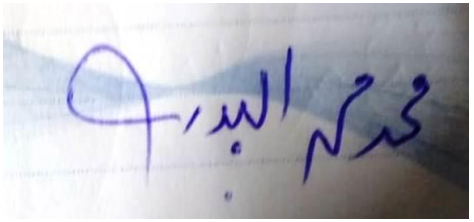

Head of Department:

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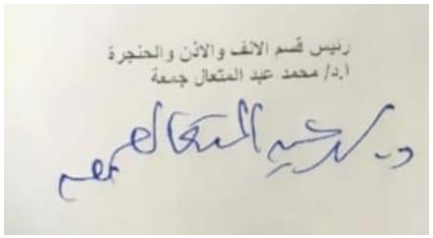
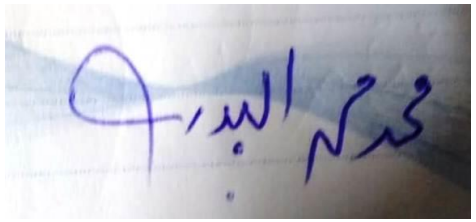


	Topic	Hours	Knowledge%	Intellectual%	% of topic	N of items per topic	Knowledge		Intellectual		Marks	Actual marks
							N of items	mark	N of items	mark		
1	Acoustics related to audiovestibular science	41	50%	50%	7.3%	12	6	12	6	12	24	24
2	Physiology of vestibular system	41	63%	37%	7.3%	10	6	15	4	9	24	24
3	Audiology and hearing disorders	137.5	57%	43%	24.4%	15	9	45	6	35	80	80
4	Vestibular disorders	137.5	66%	44%	24.4%	20	13	52	12	28	80	80
5	Rehabilitation for audiovestibular disorders	85	71%	29%	15.1%	8	6	35.5	2	14.5	50	50
6	Otologic disorders	120	40%	60%	21.3%	6	2	28	4	42	70	70
Total		562			100 %						328	328

Head of the Audio-vestibular : **Head of Department:**

Prof. Dr. Mohammed Mohammed Elbadry



Prof. Dr. Mohammed Abd-Elmotaal