كلية الطب
Faculty of Medicine

MINIA UNIVERSITY

Master (MSc) Program Specifications of Neurology and Psychiatry

Program Specifications for MSc of neurology and psychiatry
(2022-2023)

University: MINIA

Faculty(s): MEDICINE

Department: Special medicine – Neurology and psychiatry unit

A- Basic Information:

1- **Program title:** Master Degree in Neurology and Psychiatry. **Code: NP200**
2- **Final award:** Master degree in Neurology and Psychiatry
Program type: Single ☑ Double ☐ Multiple ☐
3- **Responsible department:** Department of Special medicine, Neurology and Psychiatry Unit
4- **Departments involved in the program:** Department of Special medicine, Neurology and Psychiatry Unit; Human Anatomy and embryology department; Histology and Cell Biology department; Medical Physiology department; Medical Biochemistry department; Pathology department; Forensic and clinical Toxicology department; Internal Medicine department
5- **Program duration: 2 years**
6- **Number of program courses: Ten**
7- **Coordinator**s: Prof. Muhammad Abdelfattah
8- **External evaluator:** Prof. Muhammad Abdelrahman, Assiut University
9- **Program management team:**
Professor Nermin Ali Hamdy
Professor Muhammad Abdelfattah Yahya
Lecturer Shimaa Khalaf Mady
Assistant lecturer Saad Ayoub Saad

B- Professional Information:

1- Program aims:

Graduate of Master Degree in Neurology and Psychiatry the candidate should be able to:

1.1. Provide neurologist and psychiatrist with standard knowledge and skills of neurology and psychiatry medicine

1.2. Diagnose and treat neurology and psychiatry diseases including critical neurology illnesses

1.3. Apply recent national and international guidelines in neurology and psychiatry

1.4. Practice with sound professional ethical attitude; to interact with community problems

1.5. Take personal responsibility for his/her own continued medical development

1.6. Understand basics of scientific medical research.

2- Intended learning outcomes (ILOs)

2.1. (a) Knowledge and understanding:

By the end of the study of master program in neurology and psychiatry diseases the candidate should be able to:

A1. Describe the essential anatomy and histology of the CNS

A2.Identify the basic mechanisms of nervous system physiology and biochemistry

A3.Recognize the essential pathological changes of nervous system diseases

A4.Describe various pharmacological and non-pharmacological therapeutic options in neurology and psychiatry

A5.Recognize the basics of general psychology and different schools of psychology and psychotherapy

A.6.Define main neurology and psychiatry diseases, their etiologies, pathologies, diagnosis and management

2.2. (b) Intellectual skills

By the end of master program in neurology and psychiatry diseases the candidate should be able to:

B1. Differentiate various neurology and psychiatry disorders

B2. Appraise the pathology and pathogenesis of main neurology and psychiatry disorders

B3. Interpret a case study

B4. Analyze critical neurology problems

B5. Evaluate the clinical manifestations and differential diagnosis of main neurology and psychiatry problems

B.6.Interpret EEG reports

B.7.Interpret EMG and NCS reports

B.8.Compare various radiological abnormalities of neurology and psychiatry disorders

2.3. Skills:

2.3.1. (c) Professional and practical skills

By the end of the study of master program in neurology and psychiatry diseases the candidate should be able to:

C1. Take competent history from neurology and psychiatry patients

C2. Perform neurological examination

C3.Perform mental state examination

C4.Solve main neurology and psychiatry problems including critical neurology problems

C5.Perform aspiration of CSF

C6.Perofrm EMG and NCS

C7.Assess severity and stages of neurology and psychiatry disorders

C8.Perform psychotherapy techniques

2.3.2. (d) General and transferable skills

By the end of the study of master program in neurology and psychiatry diseases the candidate should be able to:

D1. Communicate effectively with patients, their families and all health care personnel

D2. Use efficiently the information technology including data entry & analysis to enhance data management and to achieve improvement of the professional practice

D3. Demonstrate skills of self-evaluation and identify personal learning needs to design plans for self-development.

D4. Use efficiently different sources of information to get essential and relevant knowledge

D5. Develop effective indicators for assessment of performance of others including students, junior staff

D6. Work effectively in a team, and demonstrate the skills of leadership in various professional contexts.

D7. Manage time efficiently and learn to priorities tasks.

D8 Show the skills of continuous & self-learning

3- Program Academic Reference Standards

- Faculty of Medicine, Minia University adopted the general national academic reference standards provided by the national authority for quality assurance and accreditation of education (NAQAAE) for all postgraduate programs. (Faculty Council Decree No.6854, in its cession No.177 Dated: 18\5\2009). **{Annex 1}.**
- Faculty of Medicine, Minia University has developed the academic standards (ARS) for Master(MSc) and approved in faculty Council decree No.7528, in its cession No.191, dated: 15\3\2010) and these standards (faculty ARS) have been updated and approved in faculty Council No.52/2 dated: 20/ 2 / 2023 **{Annex 2}**

-Then **Neurology and Psychiatry Unit** has adopted these standards and developed the intended learning outcomes (ILOS) for **MSCs program in Master degree in Neurology and Psychiatry** and the date of program specifications 1st approval was by department council: 13-5-2013, last update of program specification approval by department council: 6-3-2023

4. Program Structure and Contents:

4. A. Program duration: 2 years.

4. B. Program structure:

- No of hours/week:
  - Lecture: 17 hrs./w (for first part), 7 hrs./w (second part)
  - Clinical and Practical: 19 hrs. /w (for first part), 9 hrs./w (second part)
  - Total hours/week: 36 hrs./w (for first part), 16 hrs./w (second part)
- Basic sciences (compulsory) courses: No 7 Percentage %30
- Basic sciences (optional) courses: No 0 Percentage %: …
- Specific courses related to the specialty: No 4 Percentage % 70
- Other courses: No 0 Percentage %: …
- Training programs and workshops, field visits, seminars & other scientific activities: Distributed along the whole program.

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

5. Program courses:

Number of courses: 10

N.B. {Courses' specifications are present in Annex 3} & {Correlations of Program ILOs with courses are present in Annex 4}

Course Title	Total No. of Hours/week	No. of hours /week			Program ILOs Covered
		Lect.	Practical	tutorial	
FIRST PART (Level of course):					
1-Internal medicine	20	2	18		**A.3,6 B 4,8 D 1,2,3,4,5,6,7,8**
2- Medical Biochemistry	3	3			**A.2, C 5, D 1,2,3,4,5,6,7,8**
3- Medical physiology					**A.2, B 6,7, C6, D 1,2,3,4,5,6,7,8**
4- Human Anatomy and embryology	2	2			**A.1, D 1,2,3,4,5,6,7,8**
5- Histology and cell biology					**A1, D 1,2,3,4,5,6,7,8**
6- Psychology	2	2			**A 5,6, B1,3,C8, D 1,2,3,4,5,6,7,8**
7. Medical ethics	2	1			**A 5,6, B1,3, C8, D 1,2,3,4,5,6,7,8**
Training programs and workshops, field visits, seminars& other scientific activities	Continuous				
SECOND PART (Level of course):					

8-Neurology	6	3	3		**A.4** **B 1,2,3, 4, 5, 6,7,8** **C 1, 2, 4, 5, 6, 7** **D.1,2,3,4,5,6,7,8**
9-Psychiatry	6	3	3		**A.4,6** **B 1, 2, 3, 5, 6, 8** **C 1, 3, 4, 7** **D 1,2,3,4,5,6,7,8**
10-Neuropathology and Psychopathology	3	1	2		**A.3,6** **B 1, 2, 5, 8** **C 5,8** **D 1,2,3,4,5,6,7,8**
	1		1		
Training programs and workshops, field visits, seminars& other scientific activities	Continuous				**D 1,2,3,4,5,6,7,8**

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 internal medicine 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 (2 years), starting from registration till the second part exam; divided to:

First Part: (≥ 6 months):

- All courses as specified in the internal by law

- 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 months 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 occurs after publishing one thesis – based paper in local or international journal and this is enough to pass this part.

Second Part: (≥18 months):

- Program related specialized Courses.

- Actual work for 18 months as a demonstrator /trainee in the department of neurology and psychiatry.

- 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

    c. Case presentation

    d. Seminars

    e. Thesis discussion

    f. Workshops

    g. Conference attendance

    h. Journal club

    i. Other scientific activities requested by the department

8- Teaching and learning methods:

1- 2 hours of lectures per week throughout the course.

2-2hours of practical training and demonstration weekly throughout the course.

3-Self training activities such as use of internet and multimedia.

4- Regular weekly seminars, presentations and assignments.

5-Training courses & workshops.

6-Thesis discussion.

7-Conference attendance

Teaching and learning methods	**The assessed ILOs**
• **Lectures**	a1,a2, a3,a4,a5,a6 b1,b2,b3,b4,b5,b6,b7,b8
• **Practical sessions**	C1,C2,C5,C6 ,C7,C8
- Self-training activities **-seminars, presentations and assignments.** **-training courses & workshops.** **-Thesis discussion.** **-Conference attendance**	C1,C2,C5,C6 ,C7,C8, d1,d2,d3,d4,d5,d6,d7,d8

9-Methods of student assessment:

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	**a.** Knowledge & understanding **b.** Intellectual skills

• Complete • True or false and correct the wrong • Commentary • 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)	

Weighing of assessment:

It is mandatory to pass all the papers of written exams separately

Course	Written	Oral	Practical	Total
First Part				
Anatomy	15	22.5		37.5
Histology	15	22.5		37.5
Physiology	20	30		50
Biochemistry	10	15		25
Psychology	30	45		75
Internal medicine	30	20	25	75
Medical Ethics	40%	60%		100%
Total of first part	**120**	**155**	**25**	**300**
Second part				
Neurology	120	90	90	300
Psychiatry	120	90	90	300
Pathology	40	30	30	100
Total of second part	**280**	**210**	**210**	**700**

10- . Evaluation of programme intended learning outcomes:

Evaluator (By whom)	Method/tool	Sample
1. Senior students (Students of final years)	Questionnaires	10
2. Graduates (Alumni)	Questionnaires	5
3. Stakeholders	Meeting	5

	Questionnaires	
4. External & Internal evaluators and external examiners	Reports	2
5. Quality Assurance Unit	Reports Questionnaires Site visits	1

Program Coordinators: Mohamed Abdelfattah Yahia Mohamed, Professor of Neurology, Faculty of medicine- Minia university, Shimaa khalaf Mady, lecturer pf psychiatry, , Faculty of medicine- Minia university.

Head of Department:
Prof Dr. Nermin Ali Hamdy, Professor of neurology, Faculty of medicine – Minia university

Date of program specifications 1st approval by department council: 13/5/2013.
Date of last update & approval by department council: 6/3/ 2023

Annex 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
١. مواصفات الخريج: خريج برنامج الماجستير في أي تخصص يجب أن يكون قادرا على:	**1. Graduate Attributes:** Graduate of master (MSC) program should be able to:
1.1. إجادة تطبيق أساسيات ومنهجيات البحث العلمي واستخدام أدواته المختلفة.	1.1. understanding and applying of basics of research method and research tools
2.1. تطبيق المنهج التحليلي واستخدامه في مجال التخصص	2.1. Critically analyze, evaluate, and effectively communicate findings, theories, and methods
3.1. تطبيق المعارف المتخصصة و دمجها مع المعارف ذات العلاقة في ممارسته المهنية.	3.1. Apply integrated professional and general knowledge in his scholarly field and at the interface between different fields.
4.1. إظهار وعيا بالمشاكل الجارية والرؤى الحديثة في مجال التخصص.	4.1. Demonstrate awareness of community health needs related to the field of specialization by understanding the beneficial interaction with the society to improve quality of life
5.1. تحديد المشكلات المهنية وإيجاد حلولا لها.	5.1. Demonstrating proficiency, required to solve current complex problems in his scholarly field.
6.1. إتقان نطاق مناسب من المهارات المهنية المتخصصة واستخدام الوسائل التكنولوجية المناسبة بما يخدم ممارسته المهنية.	6.1. Master a variety of technical skills in his scholarly field and expert relevant equipment, technology, and software.
7.1. لتواصل بفاعلية والقدرة على قيادة فرق العمل.	7.1. Gain leadership skills and be able to communicate efficiently with colleagues and get the best results.
8.1. اتخاذ القرار في سياقات مهنية مختلفة.	8.1. Take professional situational decisions and logically support them.
9.1. توظيف الموارد المتاحة بما يحقق أعلي استفادة و الحفاظ عليها	9.1.Optimal use of available resources to achieve research or best patient health care and ensure its maintenance.

10.1. إظهار الوعي بدوره في تنمية المجتمع والحفاظ على البيئة في ضوء المتغيرات.	10.1. Demonstrate awareness of its role in community health development and
11.1. التصرف بما يعكس الالتزام بالنزاهة والمصداقية والالتزام بقواعد المهنة.	11.1. Exhibit ethical behavior that reflect commitment to the code of practice
12.1. تنمية ذاته أكاديميا ومهنيا و قادرا علي التعلم المستمر.	12.1. demonstrate the ability to sustain a lifelong personal and professional growth.
٢.المعايير القياسية العامة: **NAQAAE General Academic Reference Standards "GARS" for Master Programs**	**2. Faculty Academic Reference Standards (ARS) for Master Program**
٢,١. 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**……., the graduate should have sufficient knowledge and understanding of:
٢,١,١. النظريات والأساسيات والحديث من المعارف في مجال التخصص والمجالات ذات العلاقة	2.1.1. Understand the scientific basis and modern knowledge in the field of specialization and related medical sciences
٢,١,٢. التأثير المتبادل بين الممارسة المهنية وانعكاسها علي البيئة	2.1.2. The mutual influence of professional practice on work environment, working conditions, and job characteristics.
٢,١,٣. التطورات العلمية في مجال التخصص	2.1.3. Scientific developments in the field of specialization
٢,١,٤. المبادئ الأخلاقية والقانونية للممارسة المهنية في مجال التخصص	2.1.4. Recognize basics of medico-legal aspects of practice, malpractice and avoid common medical errors
٢,١,٥. مبادئ وأساسيات الجودة في الممارسة المهنية في مجال التخصص	2.1.5. Quality principles in the scholarly field
٢,١,٦. أساسيات وأخلاقيات البحث العلمي	2.1.6. Basis of research methodology and medical ethics.
2.2.المهارات الذهنية: بانتهاء دراسة برنامج الماجستير يجب أن يكون الخريج قادرا على:	**2.2. Intellectual Skills:** Upon completion of the master program of……, the graduate should be able to:
2.2.1. تحليل وتقييم المعلومات في مجال التخصص والقياس عليها لحل المشاكل	2.2.1. Use judgment skills for analytical and critical problem solving
2.2.2. حل المشاكل المتخصصة مع عدم توافر بعض المعطيات	2.2.2. Capable of integrating knowledge and dealing with complex subjects to solve problems

2.2.3 الربط بين المعارف المختلفة لحل المشاكل المهنية	2.2.3. Be capable of integrating research results and/or results of history, physical and laboratory test findings to solve a research or a clinical problem.
2.2.4. إجراء دراسة بحثية و/أو كتابة دراسة علمية منهجية حول مشكلة بحثية	2.2.4. Effectively apply research methods and carrying out a medical research thesis
2.2.5. تقييم المخاطر في الممارسات المهنية في مجال التخصص	2.2.5. Be aware of risk management principles, and patient safety.
2.2.6. التخطيط لتطوير الأداء في مجال التخصص	2.2.6. Establish goals, commitments, and strategies for improved professional performance in the field of specialty
2.2.7. اتخاذ القرارات المهنية في سياقات مهنية متنوعة.	2.2.7. Take professional situational decisions and logically support them.
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……, the graduate must be able to:
3.2.1. إتقان المهارات المهنية الأساسية والحديثة في مجال التخصص.	3.2.1. Master the basic and some advanced professional skills in his scholarly field.
٣,٢,٢كتابة و تقييم التقارير المهني.	3.2.2. Write and evaluate medical or scientific reports
٢,٣,٣تقييم الطرق والأدوات القائمة في مجال التخصص	3.2.3. Assess and evaluate technical tools during research
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……, the graduate should be able to:
٤,٢,١. التواصل الفعال بأنواعه المختلفة	4.2.1. Communicate effectively using a written medical record, electronic medical record, or other digital technology.
٤,٢,٢. استخدام تكنولوجيا المعلومات بما يخدم الممارسة المهنية	4.2.2. Use of information technology (computer to create, process, store, secure and exchange electronic data) in the field of medical practice.
4.2.3. لتقييم الذاتي وتحديد احتياجاته التعلمية الشخصية	4.2.3. Assess himself and identify personal learning needs
4.2.4. استخدام المصادر المختلفة للحصول على المعلومات والمعارف	4.2.4. Use various sources for information (physical and digital sources).

4.3.**5**. وضع قواعد ومؤشرات تقييم أداء الآخرين	4.2.5. Setting indicators for evaluating the performance of others
4.2.**6**. العمل في فريق، وقيادة فرق في سياقات مهنية مختلفة	4.2.6. Work in a team, and Apply leadership skills to enhance team functioning, the learning environment, and/or the health care delivery system
4.2.**7**. إدارة الوقت بكفاءة	4.2.7. Manage time efficiently
٤,٢,٨.التعلم الذاتي والمستمر	4.2.8. Demonstrate skills of self-learning and lifelong learning needs of medical profession.

Annex (2): ARS VS. MSc PROGRAM of Neurology and psychiatry

MSc Program of neurology and psychiatry	2. Faculty Academic Reference Standards (ARS) for Master Program	٢.المعايير القياسية العامة: NAQAAE General Academic Reference Standards "GARS" for Master Programs
	2.1. Knowledge & Understanding: Upon completion of the Master Program in……., the graduate should have sufficient knowledge and understanding of:	**٢,١. المعرفة والفهم: بانتهاء دراسة برنامج الماجستير يجب أن يكون الخريج قادرا علي الفهم والدراية بكل من:**
A1. Describe the essential anatomy and histology of the CNS	2.1.1. Understand the scientific basis and modern knowledge in the field of specialization and related medical sciences	٢,١,١. النظريات والأساسيات والحديث من المعارف في مجال التخصص والمجالات ذات العلاقة
A2.Identify the basic mechanisms of nervous system physiology and biochemistry	2.1.2. The mutual influence of professional practice on work environment, working conditions, and job characteristics.	٢,١,٢. التأثير المتبادل بين الممارسة المهنية وانعكاسها علي البيئة
A3.Recognize the essential pathological changes of nervous system diseases	2.1.3. Scientific developments in the field of specialization	٢,١,٣. التطورات العلمية في مجال التخصص
A4.Describe various pharmacological and non-pharmacological therapeutic options in neurology and psychiatry	2.1.4. Recognize basics of medico-legal aspects of practice, malpractice and avoid common medical errors	٢,١,٤. المبادئ الأخلاقية والقانونية للممارسة المهنية في مجال التخصص
A5.Recognize the basics of general psychology and different schools of psychology and psychotherapy	2.1.5. Quality principles in the scholarly field	٢,١,٥. مبادئ وأساسيات الجودة في الممارسة المهنية في مجال التخصص
A.6.Define main neurology and psychiatry diseases, their etiologies, pathologies, diagnosis and management	2.1.6. Basis of research methodology and medical ethics.	٢,١,٦. أساسيات وأخلاقيات البحث العلمي
	2.2. Intellectual Skills: Upon completion of the master program of……, the graduate should be able to:	**2.2.المهارات الذهنية: بانتهاء دراسة برنامج الماجستير يجب أن يكون الخريج قادرا على:**
B1. Differentiate various neurology and psychiatry disorders	2.2.1. Use judgment skills for analytical and critical problem solving	2.2.1.تحليل وتقييم المعلومات في مجال التخصص والقياس عليها لحل المشاكل

B2. Appraise the pathology and pathogenesis of main neurology and psychiatry disorders	2.2.2. Capable of integrating knowledge and dealing with complex subjects to solve problems	2.2.2.حل المشاكل المتخصصة مع عدم توافر بعض المعطيات
B3. Interpret a case study	2.2.3. Be capable of integrating research results and/or results of history, physical and laboratory test findings to solve a research or a clinical problem.	2.2.3الربط بين المعارف المختلفة لحل المشاكل المهنية
B4. Analyze critical neurology problems	2.2.4. Effectively apply research methods and carrying out a medical research thesis	2.2.4.إجراء دراسة بحثية و/أو كتابة دراسة علمية منهجية حول مشكلة بحثية
B5. Evaluate the clinical manifestations and differential diagnosis of main neurology and psychiatry problems	2.2.5. Be aware of risk management principles, and patient safety.	2.2.5.تقييم المخاطر في الممارسات المهنية في مجال التخصص
B.6. Interpret EEG reports B.7 interpret EMG and NCS reports	2.2.6. Establish goals, commitments, and strategies for improved professional performance in the field of specialty	2.2.6.التخطيط لتطوير الأداء في مجال التخصص
B.8. Compare various radiological abnormalities of neurology and psychiatry disorders	2.2.7. Take professional situational decisions and logically support them.	2.2.7.اتخاذ القرارات المهنية في سياقات مهنية متنوعة.
	3.2. Professional Skills: **Upon completion of the master program of……, the graduate must be able to:**	**3.2.المهارات المهنية:** **بانتهاء دراسة برنامج الماجستير يجب أن يكون الخريج قادرا على:**
C1. Take history from neurology and psychiatry patients C2. Perform neurological examination C3. Perform mental state examination C4. Solve main neurology and psychiatry problems including critical neurology problems	3.2.1. Master the basic and some advanced professional skills in his scholarly field.	3.2.1.إتقان المهارات المهنية الأساسية والحديثة في مجال التخصص.
C5. Perform aspiration of CSF .	3.2.2. Write and evaluate medical or scientific reports	٣,٢,٢كتابة و تقييم التقارير المهني.

C6. Perform EMG and NCS C7. Assess severity and stages of neurology and psychiatry disorders C8. Perform psychotherapy techniques	3.2.3. Assess and evaluate technical tools during research	٢,٣,٣تقييم الطرق والأدوات القائمة في مجال التخصص
	4.2. General and transferable skills **Upon completion of the master program of……, the graduate should be able to:**	**4.2.المهارات العامة والمنتقلة :** **بانتهاء دراسة برنامج الماجستير يجب أن يكون الخريج قادرا على:**
D.1 Communicate effectively with patients, their families and all health care personnel	4.2.1. Communicate effectively using a written medical record, electronic medical record, or other digital technology.	٤,٢,١. التواصل الفعال بأنواعه المختلفة
D.2 Use efficiently the information technology including data entry & analysis to enhance data management and to achieve improvement of the professional practice	4.2.2. Use of information technology (computer to create, process, store, secure and exchange electronic data) in the field of medical practice.	٤,٢,٢. استخدام تكنولوجيا المعلومات بما يخدم الممارسة المهنية
D.3 Demonstrate skills of self-evaluation and identify personal learning needs to design plans for self-development.	4.2.3. Assess himself and identify personal learning needs	4.2.3. لتقييم الذاتي وتحديد احتياجاته التعلمية الشخصية
D.4 Use efficiently different sources of information to get essential and relevant knowledge	4.2.4. Use various sources for information (physical and digital sources).	4.2.4. استخدام المصادر المختلفة للحصول على المعلومات والمعارف
D.5 Develop effective indicators for assessment of performance of others including students, junior staff	4.2.5. Setting indicators for evaluating the performance of others	4.3.5. وضع قواعد ومؤشرات تقييم أداء الآخرين
D.6 Work effectively in a team, and demonstrate the skills of leadership in various professional contexts	4.2.6. Work in a team, and Apply leadership skills to enhance team functioning, the learning environment, and/or the health care delivery system	4.2.6. العمل في فريق، وقيادة فرق في سياقات مهنية مختلفة
D.7 Manage time efficiently and learn to priorities tasks.	4.2.7. Manage time efficiently	4.2.7. إدارة الوقت بكفاءة
D.8 Show the skills of continuous & self-learning	4.2.8. Demonstrate skills of self-learning and lifelong learning needs of medical profession.	٤,٢,٨.التعلم الذاتي والمستمر

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Annex 5

نموذج رقم (١١ب)

جامعة/ أكاديمية	جامعة المنيا
كلية/ معهد	الطب البشري
قسم	الباطنة الخاصة وحدة الأمراض العصبية والنفسية

مسمى البرنامج	**MSc. of Neurology and Psychiatry**
كود البرنامج	**NP200**

Matrix coverage of MSc Program ILOs by Courses

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
Anatomy	A.1			D 1,2,3,4,5,6,7,8
Histology	A.1			D 1,2,3,4,5,6,7,8
Physiology	A.2	B 6,7	C 6	D 1,2,3,4,5,6,7,8
Biochemistry	A 2		C 5	D 1,2,3,4,5,6,7,8
Internal medicine	A 3, 6	B 4,8		D 1,2,3,4,5,6,7,8
Medical ethics	A 5, 6	B 1, 3	C 8	D 1,2,3,4,5,6,7,8
Pathology and psychopathology	A 3, 6	B 1, 2, 5, 8	C 5,8	D 1,2,3,4,5,6,7,8
Psychology	A 5, 6	B 1, 3	C 8	D 1,2,3,4,5,6,7,8
Psychiatry	A 4, 6	B 1, 2, 3, 5, 6, 8	C 1, 3, 4, 7	D 1,2,3,4,5,6,7,8
Neurology	A 4	B 1,2,3, 4, 5, 6,7,8	C 1, 2, 4, 5, 6, 7	D 1,2,3,4,5,6,7,8
Thesis	A 4,5,6	B 1,2,3, 4, 5, 6,7,8	C 1, 2, 4, 5, 6, 7, 8	D 1,2,3,4,5,6,7,8

Program Coordinators:

Professor / Muhammed Abdelfattah Yahya

Head of Department: Prof Dr / Nermin Ali Hamdy

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

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

Matrix coverage of MSc Program ILOs by Methods of Teaching

Methods of Teaching and Learning	Program Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical Skills	D. General & Transferable Skills
	A	B	C	D
Lectures	A 1,2,3,4,5,6			
Practical		B 1,2,3,4,5,6,7,8	C 1,2,3,4,5,6,7,8	D 1,2,3,4,5,6
Clinical (Including general rounds)		B 1,2,3,4,5,6,7,8	C 1,2,3,4,5,6,7,8	D 1,2,3,4,5,6
Presentation/ seminars			C 1,2,3	D 1,2,3,4
Journal club	A 1,2,3,4,5,6			D 1,2,3,4
Thesis discussion		B 4		
Training courses & workshops		B 1,2,3,4,5,6,7,8	C 1,2,3,4,5,6,7,8	
Other/s				

Matrix of Coverage of MSc Program ILOs by Method of Assessment

Methods of Assessment	Program Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical Skills	D. General & Transferable Skills
	A	B	C	D
Written exam	A 1,2,3,4,5,6			
Practical exam		B 1,2,3,4,5,6,7,8	C 1,2,3,4,5,6,7,8	
Clinical exam		B 1,2,3,4,5,6,7,8	C 1,2,3,4,5,6,7,8	
Oral exam	A 1,2,3,4,5,6	B 1,2,3,4,5,6,7,8	C 1, 4	
Assignment				D 1,2,3,4,5,6,7,8
Master Thesis				D 1,2,3,4,5,6,7,8

جامعة: المنيا
كلية : الطب البشرى
قسم: الفسيولوجيا الطبية

Medical Physiology Course Specifications

For 1st Part Master (MSc) Degree in Neurology and psychiatry

- **University: Minia**
- **Faculty: Medicine**
- **Faculty offering the program:** Faculty of Medicine.
- **Department offering the course:** Medical Physiology Department.
- **Program(s), on which the course in given: MSc** Degree in **Neurology and psychiatry.**
- **Major or minor element of program(s):** Medical Physiology.
- **Academic year/level:** 1st part **MSc** degree in **Neurology and psychiatry**
- **Date of specification approval: 2022-2023**

Basic Information

Title: Physiology course specifications for 1st part MSC degree of **Neurology** and psychiatry
Code: NP200 **Credit Hours:** Not applicable
Lectures: 1.5 hours / week
Tutorial/Practical: Not applicable

Professional information

1) OVERALL AIM OF COURSE:

The aim of the course is to provide the postgraduate students with knowledge about the physiological principles underlying **neuropsychiatric** diseases that aid in interpretation of symptoms, investigations and management.

INTENDED LEARNING OUTCOMES OF COURSE (ILOS)

A. Knowledge and Understanding:

By the end of the course, the student should be able to:

A1. Physiology of Hematological System (Blood):

1.1. Explain erythropoiesis & its disorders.
1.2. Describe the body immune mechanisms.
1.3. Discuss the mechanisms of hemostasis & common disorders.

A2. Physiology of Cardiovascular System (CVS):

2.1. Describe the factors affecting and regulation of arterial blood pressure (ABP).
2.2. Describe cerebral circulation and blood brain barrier.

A3. Physiology of Autonomic Nervous System (ANS):

3.1. Identify the physiology of sympathetic & parasympathetic nervous systems including distribution, pathway, functions, chemical transmission & common disorders.

A4. Physiology of Excitable Tissues:

4.1. Identify the physiology of nerve & skeletal muscle, including resting membrane potential, action potential & skeletal muscle excitation-contraction coupling.

A5. Physiology of Central Nervous System (CNS):

5.1. Identify the physiology of synapses & the different neurotransmitters.
5.2. Discuss in detail sensory pathways and effects of different lesions.
5.3. Discuss in detail reflex functions, types of reflexes and the common disorders.
5.4. Describe the functions of basal ganglia, cerebellum and vestibular system in motor function control and the common disorders.
5.5. Describe the functions of subcortical motor centers thalamus, hypothalamus & limbic system and reticular formation.
5.6. Discuss the physiology of sleep & its disorders and EEG.
5.7. Discuss the functional cortical areas and intellectual cortical functions and its disorders,

A6. Physiological bases of Metabolism:

6.1. Describe regulatory mechanisms of body temperature & disorders.

A7. Physiological bases of Endocrinal System:

7.1. Describe in brief endocrine disorders affecting the nervous system.

B. Intellectual Skills:

By the end of the course, the student should be able to:

B1. Develop the skills for demonstrating different functions of the body systems related to the nervous system to diagnose deviation from normality as detected disease state.

B2. Assess the problems associated with different factors, which affect the normal function of different body systems related to the nervous system.

C. Practical Skills:

Practical hours: -

D. General and Transferable Skills:

By the end of the course, the student should be able to:

D1. Adopt the principles of lifelong learning.

D2. Prepare and present clearly and effectively a scientific topic in a tutorial, a staff meeting or the yearly scientific day.

D3. Work efficiently within a team, honor and respect his colleagues.

Curriculum structure & contents:

Topic:	No. of Lectures	Total no. of hours
1. Physiology of Haematological System (Blood): • Erythropoiesis & disorders. • Body immune mechanisms. • Mechanisms of hemostasis & common disorders.	1	1.5
2. Physiology of Cardiovascular System (CVS): • Arterial blood pressure (APB); factors affecting & its regulation. • Cerebral circulation and blood brain barrier.	2	3
3. Physiology of Autonomic Nervous System (ANS): • Sympathetic & parasympathetic nervous systems. • Chemical transmitters.	4	6
4. Physiology of Excitable Tissues: • Physiology of nerve & skeletal muscle.	3	4.5
5. Physiology of Central Nervous System (CNS): • The physiology of synapses & the different neurotransmitters. • Sensory pathways and effects of different lesions. • Reflex functions, types of reflexes and the common disorders. • Role of basal ganglia, cerebellum and vestibular system in motor function control and the common disorders. • The functions of subcortical motor centres; thalamus, hypothalamus, limbic system and reticular formation. • The physiology of sleep & its disorders and EEG. • The functional cortical areas and intellectual cortical functions and its disorders,	12	18
6. Physiological bases of Metabolism: • Body temperature regulation.	1	1.5
7. Physiological bases of Endocrinal System: • Endocrine disorders affecting the nervous system.		

	1	**1.5**
Total	**24**	**36**

TEACHING AND LEARNING METHODS:

1. Lectures (1.5hr/wk.) throughout the academic year interchangeable with recorded lectures.
2. Self-learning activities such as use of internet and multimedia.

STUDENT ASSESSMENT METHODS:

1. **Written exam** to assess the student's knowledge in the form of short essay questions and /or MCQs.
2. **Oral exam** to assess student's knowledge, intellectual and general skills as well as assessing the verbal communication abilities.
3. **Log book.**

Assessment Schedule:

- **Assessment 1:** Final written exam (1.5 hr.)
- **Assessment 2:** Final oral exam.

Weighting of assessment:

- **Final written exam** **20 marks (40%)**
- **Final oral exam** **30 marks (60%)**
- **Total** **50 marks (100%)**

LIST OF REFERENCES:

1. **Department books and notes.**
   Prepared by Medical Physiology Department staff members, Faculty of Medicine, Minia University.
2. **Essential books (Text Books):**
   - Ganong review of medical physiology.
   - Guyton text book of medical physiology.
3. **Periodicals, Web sites… etc.**

FACILITIES REQUIRED FOR TEACHING AND LEARNING:

1. Classrooms with data show for lectures.
2. Computers and internet facilities.

Course Coordinator, **Head of Medical Physiology Department**
Ass. Prof. Dr. Fatma Farrag Ali **Prof. Dr. Merhan Mamdouh Ragy**

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

Blueprint of Neurology and Psychiatry MSc Physiology Examination paper

Postgraduate Physiology Course for MSc degree (1st part) of Neurology and Psychiatry

(Code: NP 200) (20 marks)

Topic	Hours	Knowledge %	Intellectual %	Weight %	Total Marks	Actual Mark
ILOS 1 and 2 Physiology of blood and Cardiovascular System (CVS): Erythropoiesis & anemia. Arterial blood pressure (APB); factors affecting & its regulation.	4	75	25	8.33	8.33	1.5
ILO 3 Physiology of autonomic nervous System: The stress response and the functional differences between sympathetic & parasympathetic nervous systems, and their chemical transmitters.	8	75	25	16.67	16.67	3.5
ILO 4 Physiology of excitable tissues: Types of nerve potentials and their relation to excitability. The mechanisms of skeletal muscles contraction and its disorders.	6	75	25	12.5	12.5	2.5
ILO 5 Physiology of CNS: Cell signaling in the nervous system and different types of neurotransmitters. The functional unit of the reflex arc and its different components. The physiology of pain. The physiology of muscle tone and its disorders. The physiology of the limbic system, reticular formation, hypothalamus, thalamus, basal ganglia and their disorders. The physiology of the different higher intellectual functions including memory, learning, speech, emotions, behavior and EEG.	24	75	25	50	50	10

ILO 6 Physiology of the neuroendocrine system: The physiology of the neuro endocrine cooperation for control of body functions.	4	75	25	8.33	8.33	1.5
ILO 7 Physiology of special senses: Visual pathway, auditory pathway, smell and taste.	2	75	25	4.17	4.17	1
Total	48			100%	100	20

جامعة: المنيا
كلية : الطب البشري
قسم: الفسيولوجيا الطبية

Physiology course specifications for 1st Part MSc degree in Neuropsychiatry	مسمى المقرر
NP200	كود المقرر

A. Matrix of Coverage of Course ILOs by Contents

Contents	Intended Learning Outcomes (ILOs)		
	A. Knowledge & Understanding	B. Intellectual	D. General & Transferable skills
1- Physiology of (Blood)	A1.1, 1.2, 1.3	B.1, B.2	D.1, D.2, D.3
2- Physiology of (CVS)	A2.1, 2.2	B.1, B.2	D.1, D.2, D.3
3- Physiology of (ANS)	A3.1	B.1, B.2	D.1, D.2, D.3
4- Physiology of Excitable Tissues	A4.1	B.1, B.2	D.1, D.2, D.3
5- Physiological of (CNS)	A5.1, 5.2, 5.3, 5.4, 5.5, 5.6, 6.7	B.1, B.2	D.1, D.2, D.3
6- Physiological basis of Metabolism	A6.1	B.1, B.2	D.1, D.2, D.3
7- Physiologic basis of Endocrine System	A7.1	B.1, B.2	D.1, D.2, D.3

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
Lectures	X	X	-	X
Self-learning activities	X	X	-	X

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	X	X	-	X
Oral Exam	X	X	-	X
Log Book	X	X	-	X

Course Coordinator(s),
Ass. Prof. Dr. Fatma Farrag Ali
Head of Medical Physiology Department
Prof. Dr. Merhan Mamdouh Ragy

Date of last update & approval 3/2023

نموذج رقم (١٢)

Course Specifications of Internal Medicine in Master degree in Neurology and psychiatry

University: Minia

Faculty: Medicine

Department: Internal Medicine

1. Course Information	
• **Academic Year/level:** first part	**Course Title:** Course Specifications of Internal Medicine in Master degree in **NP200**
• **Number of teaching hours:** - **Lectures:** Total of 40 hours - **Practical/clinical**: Total of 40 hours	
2. Overall Aims of the course	*By the end of the course the student must be able to:* to have the professional knowledge of the specified subjects of internal medicine
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 pathophysiology and causes of the specified conditions in the course. A2. Discuss the clinical picture and investigations of the diseases. A3. List the recent advances in the treatment of the specified diseases.
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 clinical picture and investigations.

	B4. Establish goals to improve performance in the field of the internal medicine.
C- Professional and Practical Skills	C1. Perform the basic and modern medical skills in the area of internal medicine. C2. Describe diseases and anomalies based on clinical 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
1. **Geriatric medicine and Nutrition:** Enteral nutrition Total parenteral nutrition	3	3	
2. **Gastroenterology and Liver diseases** Jaundice Acute & chronic viral hepatitis. Autoimmune hepatitis. Chronic liver diseases Liver cell failure. Peptic ulcer & GERD	6	6	
3. **Chest diseases**: Pneumonia, COPD, Bronchial asthma Respiratory failure.	5	5	
4. **Cardiology:**	4	4	

Hypertension Infective Endocarditis Ischemic Heart diseases Heart failure.			
5. Rheumatologic diseases SLE RA	3	3	
6. **Nephrology** Acute renal failure Chronic renal failure. Acute kidney injury. Acid base & electrolyte disorders	4	4	
7. **Hematology** Anaemias disorders of hemostasis	4	4	
8. Endocrinology: -Diabetes mellitus. -thyroid dysfunction -pituitary dysfunction -Adrenal glands dysfunction	6	6	
9. Infection Fever of unknown origin infections in immune-compromised patients Antimicrobial therapy	5	5	
Total	40	40	80
5. Teaching and Learning Methods	1 - Lectures. 2 – Clinical rounds on patients. 3- Assignments for the students to empower and assess the general and transferable skills		
6. Teaching and Learning Methods for students with limited Capacity			

7. Student Assessment	
A. Student Assessment Methods	1- Assignments for the students to empower and assess the general and transferable skills 2- Periodic written exam to assess Knowledge, understanding and Intellectual skills. 3- Periodic clinical+ written examination to assess practical skills as well as Knowledge. 4- Final written exam to assess Knowledge, understanding and intellectual skills. 5- Final oral exam to assess understanding and intellectual skills. 6- Final clinical exam to assess practical skills.
B. Assessment Schedule (Timing of Each Method of Assessment)	Assessment 1… Periodic 1… Week: 10-12 Assessment 2 … Assignment…. Week: 15-16 Assessment 3….periodic. 2…. Week …18-20 Assessment ٤ …Final practical exam Week: 24 Assessment ٥…. Final written exam. Week …24 Assessment ٦…..Final oral exam Week….24
C. Weighting of Each Method of Assessment	Written Examination 30 Oral Examination. 20 clinical Examination 20 _____ Total 75
8. List of References:	

-Cecil Essentials of Medicine (Cecil Medicine) 10th Edition

by Edward J. Wing MD FACP FIDSA (Editor), Fred J. Schiffman MD MACP (Editor)

-Harrison's Principles of Internal Medicine, Twenty-First Edition (Vol.1 & Vol.2) 21st Edition

by Joseph Loscalzo, Anthony Fauci ,

-Kumar and Clark's Clinical Medicine 10th Edition

by Adam Feather MBBS FRCP FAcadMEd

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A. Course Notes/handouts	Lecture and clinical notes prepared by staff members in the department.
B. Essential Books	**-Cecil Essentials of Medicine (Cecil Medicine) 10th Edition** .
C. Recommended Text Books	**Harrison's Principles of Internal Medicine, Twenty-First Edition (Vol.1 & Vol.2) 21st Edition** **by Joseph Loscalzo, Anthony Fauci** , **-Kumar and Clark's Clinical Medicine 10th Edition** **by Adam Feather MBBS FRCP FAcadMEd** - . .
D. Periodicals, websites	American J. and European journals for each branch

Course Coordinator/s:

Prof. Dr.Mohamed Emad Abdel Fattah
Prof. Dr.Mohamed Elsayed abdel Aal Shatat

Head of Department:

Prof. Dr. Yousef Esmael Mousa

Date of last update & approval by department Council:

3\ 2023

Blueprint of Neurology and Psychiatry MSc Internal Medicine Examination paper

Postgraduate Internal Medicine Course for MSc degree (1st part) of Neurology and Psychiatry

(Code: NP 200) (100 marks)

		Hours	Knowledge %	Intellectual %	% of topic	Marks	Actual marks
1	Geriatric medicine and nutrition	3	70	30	7.5	2.25	2
2	Gastroenterology and liver diseases	6	75	25	14	4.5	4.5
3	Chest diseases	5	75	25	12.5	3.75	4
4	Cardiology	4	75	25	10	3	3
5	Rheumatologic diseases	3	75	25	7.5	2.25	2
6	Nephrology	4	75	25	10	3	3
7	Hematology	4	75	25	10	3	3
8	Endocrinology	6	75	25	14	4.5	4.5
9	Infection	5	75	25	12.5	3.75	4
	Total	**40**			**100**		**30**

Course coordinator:

Prof. Mohamed Emad Abdelfattah

Dr. Mohamed Elsayyed Shetat

Head of department

Prof. Youssef Ismail Moussa

نموذج رقم (١١)

Course Specifications of Internal Medicine in Master degree in **Neurology and psychiatry**	**مسمى المقرر**
	كود المقرر

جامعة/أكاديمية : المنيا
كلية / معهد: الطب
قسم: الباطنة

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 & clinical skills**	**D. General & Transferable Skills**
		A	**B**	**C**	**D**
Geriatric medicine and Nutrition	**1**	**1,2,3**	**1,2**	**1**	**1,3,5**
Gastroenterology and Liver diseases	**2**	**2,3**	**2**	**2**	**2,4**
Chest diseases	**3**	**3**	**2,3**	**1,2**	**3,4**
Cardiology	**4**	**1,3**	**1,4**	**1,2**	**4,5**
Rheumatologic diseases.	**5**	**2,3**	**1,2**	**1**	**1,2,5**
Nephrology	**6**	**2,3**	**2**	**2**	**2,4**
Hematology .	**7**	**1,3**	**1,4**	**1,2**	**4,5**
Endocrinology	**9**	**1,2,3**	**1,2**	**1**	**1,3,5**
Infection	**11**	**1,2,3**	**1,3**		

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 & clinical skills	D. General & Transferable Skills
	A	B	C	D
Lecture	1,2,3	1,2		
Clinical (Including grand rounds)			2	2,4
Presentation/seminar	1,3			4,5
Journal club	2,3	1,2	1	1,2,5
Training courses & workshops	3	1,4	1,2	2,4

B- Matrix of Coverage of Course ILOs by Methods of Assessmen

Methods of Assessment	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & clinical skills	D. General & Transferable Skills
	A	B	C	D
Written exam	1,2,3	1,2		
Practical exam			1,2	
Clinical exam		2,3	1,2	
Oral Exam	12,3	1,2,4		
Assignment	2,3	1,2	1	1,2,5

كلية الطب

Faculty of Medicine

Course Specification of **Pathology**

Master degree of Neurology and psychiatry (2022-2023)

University: Minia

Faculty: Medicine

Program on which the course is given: Master degree of Neurology and psychiatry
Department offering the program: Neuropsychiatry.
Department offering the course: Pathology Department
Academic year / Level: Second part
Date of specification approval: Last date of approval: **2023**

A. Basic Information		
• **Academic Year/level:** Postgraduate; 2nd Part MSC, Neuropsychiatry	• **Course Title**: Course Specification of pathology (master's degree Neuropsychiatry)	• **Code**: NP200
• *Number of teaching hours:* • **Lectures:** Total of 24 hours; 1 hour/week • *Practical/clinical: Total of 24 hrs., 1 hour/week*		
B- Professional Information		
1. Overall Aims of the course	*By the end of the course the student must be able to* 1. Explain theories, basics & recent advances in the field of pathology.	

	2. Appraise & interpret relevant basic information and correlate them with essential clinical data to reach a final diagnosis 3. Plan for the development of acquisition of skills of basic & modern pathological laboratory techniques as well as principals of pathology. 4. Demonstrate competency on dealing with various biopsies and reporting pathological features and correlate such information with the relevant provided clinical data.
2. Intended learning outcomes of course (ILOs): ***Upon completion of the course, the student should be able to:***	
A- Knowledge and understanding	A.1.Illustrate Definition, types of acute inflammation as well as its pathological features and complications A.2.Demonstrate pathological features of chronic inflammation, and granuloma in relation to its morphological and etiological types and examples A.3.Explain cellular response to injury, etiology and pathological features of reversible cell injury and irreversible cell injury A.4.Identify hemodynamic disorders as thrombosis, embolism, ischemia, infarction, haemorrhage, gangrene and edema and mention their causes and effects on different organs. A.5. Outline adaptations of cellular growth and differentiation. Define each term with examples as hypertrophy, hyperplasia, agenesis, hypoplasia, aplasia and atrophy. Distinguish between the disorders of differentiation of the cells as dysplasia and metaplasia. A.6.Define neoplasia and name the characters and behavior of tumor, Study the classifications to benign and malignant epithelial tumors, benign and malignant connective tissue tumors. Identify grading and staging of cancer, the spread and prognosis of tumors and its effects on the host A.7. Define pathological features of central nervous system inflammatory diseases A.8.Discuss the cerebrovascular abnormalities with emphasis on hemorrhage, aneurysm and stroke A9. Discuss CNS tumors and their pathological features A10.Identify the common neoplasms affecting the peripheral nerves
B- Intellectual Skills	B1. Relate the signs and symptoms of a disease based on the underlying gross & microscopic tissue changes. B2- Interpret a pathology report and integrate gross and microscopic findings with the underlying etiology. B3- Utilize the obtained information to solve a problem in a case scenario to reach a provisional diagnosis

C- Professional and Practical Skills	C1- Write adequate pathological description concerning main features of gross appearance of a museum specimen. C2- Use the light microscope to examine and identify microscopic findings of some selected examples of studied diseases. C3- Learn proper handling of and processing tissue specimens sent for pathological e-amination. C4- Write a pathological request.
D- General and transferable Skills	D1. Demonstrate efficient communication & interpersonal skills in all its forms and in different situations that may involve senior staff, colleagues, students, lab technical staff, other health care professionals, and patients. D.2. Use efficiently the information technology and select reliable sources of information to get essential information and updates regarding the different topics and techniques in surgical pathology. D.3. Develop skills of self-evaluation and identify personal learning needs to plan for self-development and continuous medical education. D.4. Demonstrate the skills of effective time management

3. Course Contents

Topic	Lecture hours/week	Practical/Clinical hours/week	Total No. of hours hours/week
GENERAL & Systemic PATHOLOGY			
1. Acute Inflammation	2	2	4
2. Chronic inflammation and granuloma	٢	٢	4
3. Cell injury and cell death	2	2	4
4. Circulatory disturbances	2	2	4
5. Disturbances of cell growth and adaptation	2	2	4
6. Neoplasia	2	2	4
7. Inflammatory Diseases of central nervous system	3	3	6

8. Cerebrovascular Disorders of central nervous system	3	3	6
9. Tumors of central nervous system	3	3	6
10. Diseases of peripheral nervous system	3	3	6
Total	24	24	48

4. Teaching and Learning Methods	**4.1**. Lectures: Both face to face & on-line ones. **4.2**. Practical lessons: Gross pathology and histopathology **4.3**. Self-directed learning (SDL) **4.4.** Journal club, Case presentation, Seminars.
5. Teaching and Learning Methods for students with limited Capacity	Not applicable
6. Student Assessment	
Student Assessment Methods	**1. Written exam** to assess the acquired knowledge & understanding as well as intellectual skills and essential professional skills. **2. Practical exam** to assess ability of the candidate for applying information studied in the course in diagnosis. **3. Oral exam** to assess the student intellectual and communication skills regarding basic knowledge and understanding of the course topics, and to help the teaching staff to evaluate the % of achievement of the intended learning outcomes of the course.
Assessment Schedule (Timing of Each Method of Assessment)	**Assessment 1: 1 written exam** by the end of course. **Assessment 2**: **Practical exam** by the end of course. **Assessment 3: Oral exam,** after the written exam
Weighting of Each Method of Assessment	**Type of Assessment** **Marks %** • **Written** exam 40 (40 %) • **Oral** exam. 30 (30 %)

	• **Practical exam:** 30 (30%) **Total** 100 (100%)
7. List of References	
E. Course Notes/handouts	1 -General pathology course notes prepared by the department staff 2.Lectures' Handouts & printed material of recorded ones.
F. Essential Books	1- Goldblum, John R., et al. Rosai and Ackerman's Surgical Pathology E-Book. Elsevier Health Sciences (2017). 2- Kumar, V., Abbas, A. K., & Aster, J. C. Robbins basic pathology e-book. Elsevier Health Sciences (2017).
G. Recommended Te-t Books	1- Liang Jing & David Bostwick. Essentials of anat pathology (2011). 2- Diana W Molavi. The practice of surgical patholog beginner's guide to the diagnostic process (2008).
H. Periodicals, websites	To be determined and updated during the course. 1-American Journal of pathology 2-The Journal of pathology 3-Diagnostic Histopathology 4-Cancer 5-www.pubmed.com 6-www.pathma-.com

Course Coordinator:
Assistant Prof. Dr. Rabab Ahmed Safwat

Head of Department:

Prof. Dr. Heba Mohamed Tawfik

Blueprint of Neurology and Psychiatry MSc Pathology Examination paper

Postgraduate Internal Medicine Course for MSc degree (1st part) of Neurology and Psychiatry

(Code: NP 200) (100 marks)

		Hours	Knowledge %	Intellectual %	% of topic	Knowledge marks	Intellectual marks	Marks	Actual marks
1	Acute Inflammation	4	70	30	8.3			2.5	2.5
2	Chronic inflammation and granuloma	4	75	25	8.3			2.5	2.5
3	Cell injury and cell death	4	75	25	8.3			2.5	2.5
4	Circulatory disturbances	4	75	25	8.3			2.5	2.5
5	Disturbances of cell growth and adaptation	4	75	25	8.4			2.5	2.5
6	Neoplasia	4	75	25	8.4			2.5	2.5
7	Inflammatory Diseases of central nervous system	6	75	25	12.5			3.75	3.5
8	Cerebrovascular Disorders of central nervous system	6	75	25	12.5			3.75	4
9	Tumors of central nervous system	6	75	25	12.5			3.75	3.5

10	Diseases of peripheral nervous system	6	75	25	12.5			3.75	4
	Total	**48**			**100**				**30**

Course Coordinator:

Assistant Prof. Dr. Rabab Ahmed Safwat

Head of Department:

Prof. Dr. Heba Mohamed Tawfik

نموذج رقم (١١أ)

مسمى المقرر	Pathology
كود المقرر	NP200

جامعة/.....

كلية / معهد: .....الطب البشرى.....

قسم: .....الباثوبوجي.....

برنامج.....ماجستير الامراض النفسيه والعصبيه.....

A. The Matrix of Coverage of Course IL by Contents

Contents	Intended Learning Outcomes (ILOs)			
	A. Knowledge & understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
I. GENERAL & SYSTEMIC PATHOLOGY TOPICS				
Acute Inflammation	A1	B1, B2	C1	D1
Chronic inflammation and granuloma	A2	B1, B2	C1, C2	D2
Cell injury and cell death	A3	B1, B2	C1	D3
Circulatory disturbances	A4	B1, B2	C1,C2	D1, D2
Disturbances of cell growth and adaptation	A5	B1, B2	C1,C2,C3	-
Neoplasia	A6	B1, B2	C1,C2	D4
Central nervous system diseases	A7, A8, A9, A10	B1, B2, B3	C1, C2, C3,C4	D1,D2,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	A1,2,3,4,5,6,7,8, 9,10	B1,2,3	-	D1,2,3,4
Practical	-	-	C1,2,3,4	D3,4
Presentation/seminar	-	-	-	D1,2,3,4

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	A1,2,3,4,4,5 ,6,7,8,9,10	B1,2,3		
Practical exam			C1,C2,C3,C4	
Oral Exam	A1,2,3,4,4,5 ,6,7,8,9,10	B1,2,3		D1,2,3,4

نموذج رقم (١٢)

نموذج رقم (١٢)

Course Specifications of Histology for master's degree (1st part) in neurology

University: Minia

Faculty: Medicine

Department: **Histology and cell biology**

9. Course Information		
▪ **Academic Year/level:** master's degree (1st part) in neurology	• Course Title: Histology and Cell Biology	• **Code:NP200.**
• *Number of teaching hours: 24* - *Lectures:* ***Total of 24 hours. 1h/week*** - **Practical/clinical:** -		
10. Overall Aims of the course	*By the end of the course the student must be able to:* 1. provide the postgraduate student with the medical Knowledge and skills essential for the practice of specialty and necessary to gain. 2. provide master student with basic information about the structure and function of different tissues and organs affected in many medical diseases. 3. Maintenance of learning abilities necessary for continuous medical education. 4. Maintenance of research interest and abilities.	
11. Intended learning outcomes of course (ILOs): ***Upon completion of the course, the student should be able to:***		
E- Knowledge and understanding	A1. define the histological structure of body tissues and organs. A2. List the structure and function of the different cells and organs. A3. List the basic abnormalities that might affect the tissue in response to many diseases. A4. To identify the ability of different tissue to regenerate in response to diseased condition.	

F- Intellectual Skills	B1. Interpret histological changes in diseases compared to the normal histology
G- Professional and Practical Skills	C1. Teamwork, practicing and participation in scientific activities. C2. Master the basic and modern medical skills in the area of specialty. C3. Examine histological slides and identify the structure of different cells and organs.
H- General and transferable Skills	D1. Practice in groups, as a leader or as a colleague. D2. Use the advanced biomedical information to remain current with advances in knowledge and practice (self-learning). D3. Play role in the medical progress by having advanced medical information. D4. Be aware about the presentation skills through the attendance and participation in scientific activities.

12.Course Contents

Topic	Lecture hours/week	Practical/Clinical hours/week	Total No. of hours hours/week
Introduction	1		1
Blood 1	1		1
Blood 2	1		1
cardiovascular system 1	1		1
cardiovascular system 2	1		1
cardiovascular system 3	1		1
Lymphatic system 1	1		1
Lymphatic system 2	1		1
Lymphatic system 3	1		1
Lymphatic system 4	1		1
Digestive system 1	1		1
Digestive system 2	1		1
Nervous tissue 1	1		1
Nervous tissue 2	1		1
Central nervous system 1	1		1
Central nervous system 2	1		1
Central nervous system 3	1		1
Peripheral nervous system 1	1		1
Peripheral nervous system 2	1		1
Peripheral nervous system 3	1		1
Urinary system	1		1
Respiratory system	1		1
Revision	1		1
Revision	1		1
Total	24	-	24

13.Teaching and Learning Methods	-Lectures & discussions. -Assignments -Attending and participating in scientific conferences and work shops to acquire the general and transferable skills needed

14. **Teaching and Learning Methods for students with limited Capacity**	
15. **Student Assessment**	
D. Student Assessment Methods	Written exam to assess the capability of the student for application of the knowledge included in the course. Oral exam to assess the student intellectual and communica abilities regarding basic knowledge and understanding of the course topics, and to help the teaching staff to evaluate the percentage of achievement of the intended learning outcome of the course.
E. Assessment Schedule (Timing of Each Method of Assessment)	**Assessment 1:** one written exam by the end of the course. **Assessment 2:** Oral exam, after the written exam. **Formative only assessment:** simple research assignment, log book, slide box.
F. Weighting of Each Method of Assessment	**Written examination:** 15 **Oral examination**: 22.5 **Total**: 37.5
16. **List of References**	
I. Course Notes/handouts	Notes of department and practical note book
J. Essential Books	1. Basic histology, Junqueira et al. 2. Bloom and Fawcett: Concise Histology. 3. Fawcett., Cell biology and histology. Gartner et al. 4. Lippincott Illustrated review: integrated systems 5. Oxford Handbook of Medical sciences
K. Recommended Text Books	1. Wheater's Functional Histology A Text and Colour Atlas. 7th Edition - April 3, 2023. 2. Stevens & Lowe's Human Histology (Fourth Edition) Book. 4th Edition. 2015.
L. Periodicals, websites	**Web Sites:** To be determined and update during the course work. 1- http://www.histology-world.com.

	2- http://histo.life.illinois.edu/histo/atlas/slides.php **Periodicals:** 1- Cytology and histology 2- Egyptian J of Histology 3- Egyptian J of Anatomy 4- Acta Anatomica 5- International J of Experimental Research 6- Cell and Tissue Research

Course Coordinator/s:

1-Assisstant prof. Soha Abel Kawy

2- Assistant Lecturer: Rasha Mohamed

Head of Department

Prof. Dr. **Seham Abd El-Raouf Abd El-Aleem**

Date of last update & approval by department Council: March / 2023

نموذج رقم (١١أ)

مسمى المقرر	Histology and cell biology
كود المقرر	NP200

جامعة/أكاديمية : المنيا.....

كلية / معهد: الطب.....

قسم: الهستولوجي.....

A- Mareix of Coverage of ILOs by Course Content

Topic	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
Introduction	A1	B1	C1, C2, C3	D1, D2, D3, D4
Blood 1	A1, A2, A3, A4	B1	C1, C2, C3	D1, D2, D3, D4
Blood 2	A1, A2, A3, A4	B1	C1, C2, C3	D1, D2, D3, D4
cardiovascular system 1	A1, A2, A3, A4	B1	C1, C2, C3	D1, D2, D3, D4
cardiovascular system 2	A1, A2, A3, A4	B1	C1, C2, C3	D1, D2, D3, D4
cardiovascular system 3	A1, A2, A3, A4	B1	C1, C2, C3	D1, D2, D3, D4
Lymphatic system 1	A1, A2, A3, A4	B1	C1, C2, C3	D1, D2, D3, D4
Lymphatic system 2	A1, A2, A3, A4	B1	C1, C2, C3	D1, D2, D3, D4
Lymphatic system 3	A1, A2, A3, A4	B1	C1, C2, C3	D1, D2, D3, D4
Lymphatic system 4	A1, A2, A3, A4	B1	C1, C2, C3	D1, D2, D3, D4

1 Digestive system	A1, A2, A3, A4	B1	C1, C2, C3	D1, D2, D3, D4
2 Digestive system	A1, A2, A3, A4	B1	C1, C2, C3	D1, D2, D3, D4
Nervous tissue 1	A1, A2, A3, A4	B1	C1, C2, C3	D1, D2, D3, D4
Nervous tissue 2	A1, A2, A3, A4	B1	C1, C2, C3	D1, D2, D3, D4
Central nervous system 1	A1, A2, A3, A4	B1	C1, C2, C3	D1, D2, D3, D4
Central nervous system 2	A1, A2, A3, A4	B1	C1, C2, C3	D1, D2, D3, D4
Central nervous system 3	A1, A2, A3, A4	B1	C1, C2, C3	D1, D2, D3, D4
Peripheral nervous system 1	A1, A2, A3, A4	B1	C1, C2, C3	D1, D2, D3, D4
Peripheral nervous system 2	A1, A2, A3, A4	B1	C1, C2, C3	D1, D2, D3, D4
Peripheral nervous system 3	A1, A2, A3, A4	B1	C1, C2, C3	D1, D2, D3, D4
urinary system	A1, A2, A3, A4	B1	C1, C2, C3	D1, D2, D3, D4
Respiratory system	A1, A2, A3, A4	B1	C1, C2, C3	D1, D2, D3, D4
Revision	A1, A2, A3, A4	B1		
Revision	A1, A2, A3, A4	B1		

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

Methods of teaching and learning	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
Lectures	A1,2,3,4	B1		
Practical		B1		
Professional seminars	A1,2,3,4	B1	C1,2,3	D1,2,3,4
Training courses and workshops	A1,2,3,4	B1	C1,2,3	D1,2,3,4

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
Written exam	A1,2,3,4	B1		
Oral exam	A1,2,3,4	B1		

Blueprint of Histology and cell biology department for candidates of master degree in neurology “first part” examination paper (15 marks)

	Topic	Hours	Knowledge %	Intellectual %	% of topic	N of items per topic	Knowledge		Intellectual		Marks
							N of items	mark	N of items	mark	
1	Introduction	1	100	-	4.16						1
2	Blood	2	80	20	8.3						2
3	Digestive system	2	80	20	8.3						2
4	Cardiovascular system	3	80	20	12.5						2
5	Lymphatic system	3	80	20	12.5						2
6	Nervous tissue	2	80	20	8.3						2
7	Central nervous system	2	80	20	8.3						2
8	Peripheral nervous system	2	80	20	8.3						2
9	revision	2	80	20	8.3						
	Total	24			100%						15

Course Specifications of Anatomy and Embryology in Master degree in neurology and psychiatry

University: Minia

Faculty: Medicine

Department: Anatomy

17. Course Information		
• **Academic Year/level:** first part	• **Course Title:** Course Specifications of Anatomy and Embrylogy in Master degree in **Neurology and Psychiatry**	• **Code**: **NP200**
• **Number of teaching hours:** - **Lectures:** Total of 24 hours - **Practical/clinical**: Total of 9 hours		
18. Overall Aims of the course	*By the end of the course the student must be able to:* have the have the professional knowledge anatomy and embryology of nervous system.	
19. Intended learning outcomes of course (ILOs): ***Upon completion of the course, the student should be able to:***		
I- Knowledge and Understanding	A1. Mention the normal structure and function of nervous system on the macro levels. A2. Discuss early embryo development & normal growth and development of the nervous system systems. A3. List the recent advances in the abnormal structure, function, growth and development of skull, spine and peripheral nerves.	

	A4.Explain the anatomical basis of surface anatomy and radiologic anatomy.
J- 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 of diseases based on anatomical disruptions. B4. Establish goals to improve performance in the field of anatomy of the nervous system.
K- Professional and Practical Skills	C1. Master the basic and modern medical skills in the area of anatomy. C2. Describe diseases and anomalies based on anatomical data.
L- General and transferable Skills	D1. Communicate effectively by all types of effective communications. 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.

20.Course Contents

Topic	Lecture hours/week	Practical/Clinical hours/week	Total No. of hours hours/week
Anatomy of CNS: spinal cord and brain stem	4	2	6
Anatomy of CNS: brain, ventricular system and central blood supply.	4	2	6
Development and anomalies of the nervous system.	2	1	3

Functional anatomy of meninges and subarachnoid space.	2	1	3
Functional anatomy of the spinal cord tracts and reflexes	2	1	3
Functional anatomy of cerebellum and basal nuclei.	3	-	3
Functional anatomy of brain areas, visual, auditory and somato-sensory pathways.	3	-	3
Applied anatomy and clinical correlates of vascular accidents, limbic system functions and visual field defects	2	2	2
Revision	2	-	4
Total	24	9	33

21. Teaching and Learning Methods	1 - Lectures. 2 - Practical lessons. 3- Assignments for the students to empower and assess the general and transferable skills
22. Teaching and Learning Methods for students with limited Capacity	

23. Student Assessment

G. Student Assessment Methods	1- Assignments for the students to empower and assess the general and transferable skills 2- Periodic written exam to assess Knowledge, understanding and Intellectual skills. 3- Periodic practical+ written examination to assess practical skills as well as Knowledge.

	4- Final written exam to assess Knowledge, understanding and intellectual skills. 5- Final oral exam to assess understanding and intellectual skills. 6- Final practical exam to assess practical skills.
H. Assessment Schedule (Timing of Each Method of Assessment)	Assessment 1… Periodic 1… Week: 10-13 Assessment 2 … Assignment…. Week: 15-16 Assessment 3….periodic. 2…. Week …18-20 Assessment 2 …Final practical exam Week: 26-28 Assessment 3…. Final written exam. Week …26-28 Assessment 4…..Final oral exam Week….26-28
I. Weighting of Each Method of Assessment	Written Examination 15 Oral Examination. 22.5 _____ Total 37.5

24. 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.**

M. Course Notes/handouts	Lecture notes prepared by staff members in the department.
N. Essential Books	Gray's Anatomy.
O. Recommended Text Books	A colored Atlas of Human anatomy and Embryology.
P. Periodicals, websites	American J. of Anatomy

	Cochrane Library,Medline & Popline

Course Coordinator/s:

Prof. Dr. Nabil Abdelkader Hassan

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

Date of last update & approval by department Council:

2023

Blueprint of neuropsychiatry MSC" Examination Paper" in human anatomy and embryology (15 marks)

	Topic	Hours	Knowledge %	Intellectual %	% topic	No. of items per topic	Knowledge mark	Intellectual mark	Mark	Actual mark
1	Anatomy of CNS: spinal cord and brain stem	2	75%	25%	13.3%		1.5	0.5	1.99	2
2	Anatomy of CNS: brain, ventricular system and central blood supply.	2	67%	33%	13.3%		1.3	0.7	1.99	2
3	Development and anomalies of the nervous system.	2	67%	33%	13.3%		1.3	0.7	1.99	2
4	Functional anatomy of meninges and subarachnoid space.	2	67%	33%	13.3%		1.3	0.7	1.99	2
5	Functional anatomy of the spinal cord tracts and reflexes	2	67%	33%	13.3%		1.3	0.7	1.99	2
6	Functional anatomy of cerebellum and basal nuclei.	2	67%	33%	13.3%		1.3	0.7	1.99	2
7	Functional anatomy of brain areas, visual, auditory and somato-sensory pathways.	2	67%	33%	13.3%		1.3	0.7	1.99	2
8	Applied anatomy and clinical correlates of vascular accidents, limbic system functions and visual field defects	1	67%	33%	6.6%		0.6	0.4	1	1
	Total	15			100%		69.5	30.5	15	15

نموذج رقم (١١)

جامعة/أكاديمية : المنيا

كلية / معهد: الطب

قسم: التشريح

مسمى المقرر	Human Anatomy and embryology
كود المقرر	NP200

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
Anatomy of CNS: spinal cord and brain stem	1	1,2,3,4	1,2	1	1,3,5
Anatomy of CNS: brain, ventricular system and central blood supply.	2	2,3	2	2	2,4
Development and anomalies of the nervous system.	3	3,4	2,3	1,2	3,4
Functional anatomy of meninges and subarachnoid space.	4	1,4	1,4	1,2	4,5
Functional anatomy of the spinal cord tracts and reflexes	5	2,4	1,2	1	1,2,5
Functional anatomy of cerebellum and basal nuclei.	6	2,3	2	2	2,4
Functional anatomy of brain areas, visual, auditory and somato-sensory pathways.	7	1,4	1,4	1,2	4,5
Applied anatomy and clinical correlates of vascular accidents, limbic system functions and visual field defects	8	2,4	1,2	1	1,2,5

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

Methods of teaching and learning	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
Lectures	A1,2,3,4	B1,2	C1	D1,3,5
Practical	A2,3	B2	C2	D2,4
Professional seminars	A1,4	B1,4	C1,2	D4,5
Training courses and workshops	A3,4	B1,4	C1,2	D2,4

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

G

Methods of assessment	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
Written exam	A1,2,3,4	B1,2	C1	D1,3,5
Practical exam	A2,3	B2,3	C2	D2,4
Oral exam	A2,3	B1,2,4	C1,2	D4,5

Faculty of Medicine

كلية الطب

Medical Biochemistry course specification for master degree in Neurology and psychiatry (First part)

University: *Minia*
Faculty: *Medicine*
Department: Medical Biochemistry
Last date of approval 1\2023

1-Course Information		
• **Academic Year/level:** First Part of Master Degree	• **Course Title**: Medical Biochemistry	• **Code**: NP 200
• *Number of teaching hours:* **Lectures: 16.5 hours; 1.5 hours/week**		
2-Overall Aims of the course	***By the end of the course the student must be able to:*** 1. Provide the postgraduate student with the medical Knowledge and skills essential for the practice of specialty and necessary to gain. 2-Understand all molecular basics and diseases. 3-Know different molecular techniques and their advanced applications.	

	4-Better understand and use the research tools including internet and different laboratory equipment. 5-Bnow retrieving the literature and understanding the evidence-basedmedicine 6-Maintain learning abilities necessary for continuous medical education. 7-Maintain research interest and abilities.
3. Intended learning outcomes of course (ILOs): ***Upon completion of the course, the student should be able to:***	
Knowledge and Understanding	The student finishes the course; he will be able to achieve the following objectives: A1. Discuss various metabolic processes of carbohydrate, lipid and protein A2. Explain role of minerals and hormones in metabolism. A3. Define various metabolic diseases and their diagnosis A4. Define integration of metabolism A5-Identify principles, methodologies, tools and ethics of scientific research.
Intellectual Skills	B1-Analysis of different diseases to reach a final diagnosis. B2-Solve problems associated with metabolic diseases. B3-Integrate metabolic pathways with diseases.
Professional and Practical Skills	

	After completing the course, the student should be able to C1. Organize groups, as a leader or as a colleague. C2. Practice willingly the presentation skills through the attendance and participation in scientific activities.
General and transferable Skills	After completing the course, the student should be able to D1. Be aware of the advanced biomedical information to remain current with advances in knowledge and practice (self-learning). D2. Prepare for medical progress by having advanced medical research studies

4- Course Contents

Topic	Lecture hours/week	Practical/Clinical hours/week	Total No. of hours hours/week
1. Carbohydrate Metabolism	1.5	---	1.5
2. Lipid metabolism	1.5	---	1.5
3. Protein metabolism	1.5	---	1.5
4. Purines and pyrimidine Metabolism	1.5	---	1.5
5. Integration of metabolism	1.5	---	1.5
6. Minerals	1.5	---	1.5
7. Hormones	1.5	---	1.5
8. Vitamins	1.5	---	1.5
9. Xenobiotics	1.5	---	1.5

10.Body fluids	1.5	---	1.5
11.Hemoglobin metabolism	1.5	---	1.5
Total	16.5	---	16.5
5-Teaching and Learning Methods	1-Lectures & discussions. 2-Assignments 3-Attending and participating in scientific conferences and workshops to acquire the general and transferable skills needed		
6-Teaching and Learning Methods for students with limited Capacity	Additional lectures, adjusting time and place of lectures according to their schedule and capacity		
7- Student Assessment			
A-Student Assessment Methods	**1- Written exam** to assess the capability of the student for assimilation and application of the knowledge included in the course. **2-Oral exam** to assess the student intellectual and communication skills regarding basic knowledge and understanding of the course topics, and to help the teaching staff to evaluate the % of achievement of the intended learning outcomes of the course		
B-Assessment Schedule (Timing of Each Method of Assessment)	***Assessment 1: one written exam*** *by the end of the course* **Assessment 2:** ***Oral exam,*** *after the written exam* **Formative only assessment:** log book.		

C-Weighting of Each Method of Assessment	**Written examination:** 10 **Oral examination**: 15 **Total**: 25
8- List of References	
A-Course Notes/handouts	Lectures notes are prepared in the form of a book authorized by the department.
B-Essential Books	-Harper's Biochemistry, Robert K. Murray, Daryl K. Granner, PeterA.Mayes, and VictorW. Rodwell (30th edition, 2010)
C- Recommended Text Books	a. Lubert Stryer, Biochemistry b. Lehninger, Biochemistry c. Lippincott, Biochemistry.
D-Periodicals, websites	To be determined and updated during the course work. **Websites:** 1-http://www.Medical Biochemistry.com. **Periodicals:** 1- International journal of biochemistry) 2- Science

Course Coordinator/s:
Dr. Ahmed Mohamed, Dr. Heba Marey
Head of Department:

Prof. Dr. **Salama Rabie**

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

3 / 2023

Blueprint of Biochemistry for candidates of master degree in neurology “first part” examination paper (10 marks)

	Topic	Hours	Knowledge %	Intellectual %	% of topic	N of items per topic	Knowledge		Intellectual		Marks
							N of items	mark	N of items	Mark	
1	General metabolism	15	70	30	50	6	5	4.2	1	0.8	5
2	Purine and pyrimidine metabolism and gene therapy	3	70	30	10	2	1	0.5	1	0.5	1
3	Enzymes and hormones	3	70	30	10	4	3	0.75	1	0.25	1
4	Minerals and vitamins	6	80	20	20	4	3	1.5	1	0.5	2
5	Xenobiotics and haemoglobin metabolism	3	75	25	10	2	1	0.5	1	0.5	1
	Total	30			100%					10	10

نموذج (١١أ)

جامعة/ أكاديمية: المنيا
كلية/ معهد: الطب البشري
قسم: الكيمياء الحيوية

مسمى المقرر	**Biochemistry course for MSc in Neurology and Psychiatry**
كود المقرر	**NP200**

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
1. Carbohydrate Metabolism	1	+		+	
2. Lipid metabolism	2	+	+	+	+
3. Protein metabolism	3	+	+	+	+
4. Purines and	4	+	+	+	+

pyrimidine Metabolism					
5. Integration of metabolism	**5**	+	+	+	+
6. Minerals	**6**	+	+	+	+
7. Hormones	**7**	+	+	+	+
8. Vitamins	**8**	+	+	+	+
9. Xenobiotics	**9**	+	+	+	+
10. Body fluids	**10**	+	+	+	+
11. Hemoglobin metabolism	**11**	+	+	+	+

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
Lecture	X	X	x	X
Practical			x	X
Presentation/seminar		x		
Journal club	X	x		
Thesis discussion	X		x	X
Training courses & workshops		x	x	X

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			x	X
Oral Exam		X		

Course Specifications of Psychology
1st Part of MSc Program of Psychiatry
2022/2023

University: Minia

Faculty: Medicine

Department: Neurology and psychiatry

1. Course Information

• **Academic Year/level:** **1st part of** MSC of Psychiatry.	• **Course Title:** Psychology	• **Code: NP200**
• **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:* Acquire most updated scientific knowledge in the field psychology and psychopathology to improve clinical practice in psychiatry and psychotherapy	

3. Intended learning outcomes of course (ILOs):

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

A- Knowledge and Understanding	A1. Describe theories, basics and updated knowledge in the fields of psychology, perception, attention, memory, intelligence, thinking, developmental psychology, social psychology, personality, sleep, learning emotions and aggression. A2. Describe theoretical basis of contemporary schools (psychoanalysis, behaviorism, transactional psychology, gestalt psychology, existential psychology) A3. State recent advances in the fields of psychology and psychopathology A4. Outline basics, methodology, tools of psychometric assessment including assessment of intelligence, personality and organic brain disorders. A5. Identify the effect of professional practice issues on public health and health policies and methods of maintenance of public health and plan for system-based improvement
B- Intellectual Skills	B1. Appraise & interpret relevant basic information, pathological features, then correlate them with essential clinical data to produce a list of differential diagnosis. B2. Solve problems based on analysis of available data for common health problems by giving a list of differential diagnosis for further advanced investigations. B3. Conduct efficiently the proposed research thesis B4. Develop the basic skills of scientific writing of papers B5. Evaluate & manage efficiently potential risks that may arise during the professional practice in the field of psychology and psychopathology in various practical situations. B6. Plan for acquiring of necessary skills of basic and modern psychometric assessment techniques. B7. Develop the skills to manage evidence-based discussion during case-presentation

C- Professional and Practical Skills	C1. Take proper history in conditions related to psychology and psychopathology. C2. Order the appropriate psychometric tests related to psychiatric conditions. C3. Interpret the findings of psychometric tests.

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/week	Practical/Clinical hours/week	Total No. of hours hours/week
GENERAL Psychology			
1. Fields of psychology	4	4	8
2. Perception	4	-	4
3. Attention	4	2	6
4. Thinking	3	3	6
5. Memory	4	-	4
6. Learning	3	3	6
7. Personality	4	-	4
8. Intelligence	2	-	2

9. Sleep and dreams	4	4	8
10. Emotions	4	-	4
11. Aggression	4	-	4
12. Social psychology	6	6	12
13. Developmental psychology	6	6	12
Total	48	28	76

5. Teaching and Learning Methods	5.1. Lectures. 5.2. Practical lessons: Gross and histopathology (Jars & slides). 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. 2.Oral 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.

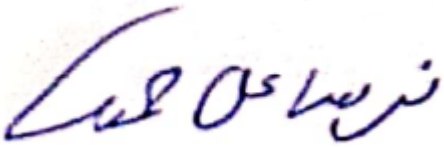
B. Assessment Schedule (Timing of Each Method of Assessment)	Assessment 1: Written exam at the end of course. Assessment 2: Oral exam, after passing the written exam.
C. Weighting of Each Method of Assessment	**Type of Assessment %** • **Written** examination 30 • **Oral** examination 45 **Total 75** ***N.B.*** - *Score of ≥ 60% of the written exam is essential to allow the student to perform both oral & clinical/ practical exams* - *For each exam, ≥ 60% is essential to pass***.**
8. List of References	
A. Course Notes/handouts	1 –Psychology and psychopathology notes: prepared by staff members
B. Recommended Text Books	2- A textbook of human psychology
C. Periodicals, websites	To be determined and update during the course work. 1-American Journal of psychology 2- www.pubmed.com

Course Coordinator:

Prof. Dr. Mohamed Abdelfattah yahia

Head of Department:

Prof. Dr. Nermin Aly Hamdy



Blueprint of Psychology Examination paper for MSc in Neurology and Psychiatry

(1st part)

(Code: NP 200)

	Topic	Hours	Knowledge %	Intellectual %	N of items per topic	Written exam		% of Marks	Actual mark
						Knowledge	Intellectual		
1	Fields of psychology	8	100		3	3		10.5	3
2	Perception	4	100		1	1		5.3	1.5
3	Attention	6	50	50	2	1	1	7.9	2.5
4	Thinking	6	25	75	2	1	1	7.9	2.5
5	Memory	4	50	50	2	1	1	5.3	1.5
6	Learning	6	40	60	2	1	1	7.9	2.5
7	Personality	4	100		1	1		5.3	1.5
8	Intelligence	2	100		1	1		2.6	0.5
9	Sleep and dreams	8	70	30	3	2	1	10.5	3
10	Emotions	4	70	30	2	1	1	5.3	1.5
11	Aggression	4	50	50	2	1	1	5.3	1.5
12	Social psychology	12	75	25	4	3	1	16.4	4.5
13	Developmental psychology	12	60	40	4	2	2	16.4	4
	Total	**76**						**100%**	**30**

نموذج رقم (١١أ)

جامعة/ أكاديمية	المنيا
كلية/ معهد	الطب البشري
قسم	الباطنة الخاصة وحدة الأمراض العصبية والنفسية

مسمى المقرر	Psychology course for MSc in Neurology and Psychiatry
كود المقرر	NP200

A- Mareix of Coverage of ILOs by Course Content

Topic	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
Fields of psychology	1,2	1,2,3	1,2,3	1,2,3,4,5,6,7
Perception	1,2,3,4,5	4,5,6	1,2,3	1,2,3,4,5,6,7
Attention	1,2,3,4,5	5,7	1,2,3	1,2,3,4,5,6,7
Thinking	1,2,3,4,5	1,3,5	1,2,3	1,2,3,4,5,6,7
Memory	1,2,3,4,5	1,2,4,6	1,2,3	1,2,3,4,5,6,7
Learning	1,2,3,4,5	1,3,7	1,2,3	1,2,3,4,5,6,7
Personality	1,2,3,4,5	1,2,3,4,5	1,2,3	1,2,3,4,5,6,7
Intelligence	1,2,3,4,5	1,2,3,4,5	1,2,3	1,2,3,4,5,6,7
Sleep and dreams	1,2,3,4,5	3,4,5,6,7	1,2,3	1,2,3,4,5,6,7
Emotions	1,2,3,4,5	1,2,3,4,5	1,2,3	1,2,3,4,5,6,7
Aggression	1,2,3,4,5	3,4,5,6,7	1,2,3	1,2,3,4,5,6,7
Social psychology	1,2,3,4,5	1,2,3,4,5	1,2,3	1,2,3,4,5,6,7
Developmental psychology	1,2,3,4,5	3,4,5,6,7	1,2,3	1,2,3,4,5,6,7

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

Methods of teaching and learning	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
Lectures	A1,2,3,4,5	B1,2,3,4,5,6,7	C1,2,3	D1,2,3,4,5,6,7
Practical	A1,2,3,4,5	B1,2,3,4,5,6,7	C1,2,3	D1,2,3,4,5,6,7
Professional seminars	A1,2,3,4,5	B1,2,3,4,5,6,7	C1,2,3	D1,2,3,4,5,6,7
Training courses and workshops	A1,2,3,4,5	B1,2,3,4,5,6,7	C1,2,3	D1,2,3,4,5,6,7

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
Written exam	A1,2,3,4,5	B1,2,3,4,5,6,7	C1,2,3	D1,2,3,4,5,6,7
Oral exam	A1,2,3,4,5	B1,2,3,4,5,6,7	C1,2,3	D1,2,3,4,5,6,7

Course Specifications of Neurology
2nd Part of MSc Program of Neurology and Psychiatry
2022/2023

University: Minia

Faculty: Medicine

Department: neurology

1. Course Information

• **Academic Year/level:** neurology and psychiatry MSc.	• **Course Title:** 2nd part of MSc Neurology and Psychiatry.	• **Code: NP 200**
• **Number of teaching hours:** - **Lectures:** Total of **62** hours; **2** hours/week - **clinical:** Total of **88** hours; **2** hours/week		

2. Overall Aims of the course	*By the end of the course the student must be able to:* 1. Plan to continuously add developments to the field of neurology through research 2. Acquire the medical knowledge in the field of neurology with other relevant sciences and apply such knowledge in practical skills 3. Create solutions for health problems in the field of neurology 4. Gain competency in a wide range of professional skills in common areas of specialty, from basic clinical care to evidence based clinical application, and possession of skills to manage independently all problems in the field of neurology Develop and improve new methods and approaches in the professional medical practice of the field of neurology 6. Use suitable technologies to improve the professional medical practice in the field of neurology
3. Intended learning outcomes of course (ILOs): ***Upon completion of the course, the student should be able to:***	
A- Knowledge and Understanding	A1. Discuss theories, principles and updated knowledge in the fields of Neurology. A2. Discuss etiology, pathogenesis, etiology, clinical manifestations, fate and complications of main common disease categories that may affect the Nervous systems. A3. Outline recent scientific development in the fields of disease biomarkers. A4. Describe basics & methods of application of ethics and medico-logical aspects and quality assurance during the professional practice of Neurology. A5. Outline the mutual effect of professional practice issues & public health and health policies and methods of maintenance & improvement of public health.
B- Intellectual Skills	B1. Assess & interpret relevant basic information, history taking then correlate them with

	available clinical data to reach a final correct diagnosis. B2. Solve problems based on analysis of available data through the approach of investigative & analytical thinking by making a list of differential diagnosis for further advanced investigations. B3. Conduct scientific research efficiently. B4. Master writing scientific papers and select suitable journals for publication B5. Assess & manage competently potential risks that may develop during the professional practice of Neurology in various practical contexts such as during diagnosing and investigating patients. B6. Relate essential skills of basic & recent Neurological techniques. B7. Demonstrate the skills of critical appraisal & decision making in different professional settings & circumstances during the professional practice of Neurology. B8. Correlate with new innovative methods, tools & ideas in the different aspects of the field of Neurology. B9. Manage professionally evidence-based discussion during case-presentation, workshops & seminars
C- Professional and Practical Skills	C1. Deal with patients and reporting their gross abnormalities and correlate such information with the available provided clinical data. C2. Practice competently standard and recent investigations in Neurology. C3. Practice of neurophysiological techniques that enable reaching a final & correct diagnosis C4. Write professionally a Neurophysiology report on evidence-based approach, through analytical approach and correlation of findings together with available clinical data. C5. Evaluate & develop plans for improvement of current methods and tools used in diagnosis. C6. Communicate with consultants the issues of principle techniques and other issues related to safety and maximizing the use of the available resources and ensure maintaining them. C7. Use competently the different technological devices during reporting, archiving & scientific writing. C8. Plan for professional self-development as well as enhancement of performance of others.

D- General and transferable Skills	D1. Demonstrate effective communication skills in all its forms in different settings & events that may involve different groups such as students, junior staff, colleagues, senior staff, technicians, patients and other health care workers D2. Use competently information technology (IT) including data entry & analysis to enhance data management and to achieve improvement of the professional practice D3. Show efficient skills of educating others and assessment of their performance. D4. Demonstrate the capability of evaluation of personal needs and plan for self-development and continuous medical education. D5. Use efficiently available information resources to get principle & updated knowledge related to the field of neurology D6. Work competently as a team-leader as well as a team member in different professional contexts. D7. Demonstrate competency for management of scientific meetings and efficient time-management.

4. Course Contents

Topic	Lecture hours/week	Practical/Clinical hours/week	Total No. of hours hours/week
Neurology			
1.**History and Clinical Examination** a- Knowledge and understanding: *By the end of the course, students should be able to:* a1- Take adequate history from the patient. b- Intellectual skills: Analyze the history to reach anatomical and etiological provisional diagnosis c- Professional and clinical skills: Perform full Neurological examination	4	2	6

2. **Speech** a- Knowledge and understanding: a1- List cortical areas concerned with speech. a2- Recognize the role of different areas in speech formulation and speech articulation a3- Define aphasia a4- Define dysarthria a5- Describe different types of aphasia and dysarthria. a6- List causes of each type of speech disorder b- Intellectual skills: b1- Recognize different types of aphasia. b2- Recognize different types of dysarthria. c- Professional and clinical skills: Perform different tests to detect types of aphasia	3	5	8
3.**Cranial Nerves and their Diseases** a-Intellectual skills: Analyze symptoms and detect signs of cranial nerve lesions c- Professional and clinical skills: Perform examination of different cranial nerves	4	6	10
4. **4) Investigations of Neurological Diseases** a-Knowledge and understanding: List the different lines of investigations (clinical neurophysiologic tests, neuroradiological, blood test, lumbar puncture and biopsy). b- Intellectual skills: b1- Recognize the indications and possible limitations of each tool. b2- Prioritize the investigations according to the clinical situation	6	8	14

b3- Recognize the different abnormalities detected in each selected tool in different clinical situation.			
5. **5) Cerebrovascular Stroke** a-Intellectual skills: 1) Analyze symptoms and detect signs of Ischemic stroke. 2) Distinguish the brain area and blood vessel affected, based on the clinical presentation. 3) Correlate the clinical picture to the aetiology. 4) Select and prioritize the appropriate investigation. 5) Combine clinical and investigational data to diagnose a case of ischemic stroke (embolic vs thrombotic). 6) Analyze symptoms and detect signs of haemorrhagic syndromes. 7) Select and interpret the appropriate investigation. 8) Combine clinical and investigational data to differentiate between subarachnoid and intracerebral haemorrhage. 9) Recognize the importance of early suspicion of haemorrhagic syndromes. 10) Solve problems of patients presenting with hemiplegia to reach anatomical and etiological diagnosis. c- Professional and clinical skills: Perform neurovascular examination.	2	4	6
6. **6) The Cerebellum and Ataxias** a- Knowledge and understanding: a1- List the types of Ataxia & describe the clinical presentation of each type. a2- Describe the clinical features of cerebellar ataxias in relation the part affected.	4	6	10

a3- Differentiate the different types of heredofamilial Ataxias based on the clinical presentation. b- Intellectual skills: b1- Analyze symptoms and detect signs of ataxia. b2- Select and interpret the investigations to reach specific diagnosis. c- Professional and clinical skills: perform different rent tests for cerebellar and sensory ataxia.			
7. **Extrapyramidal Diseases** a-Knowledge and understanding: Classify different causes of parkinsonism b-Intellectual skills: b1- Analyze symptoms and detect signs of Parkinsonism. b2- Discuss the differential diagnosis.. b3- Select and interpret the investigations. c- Professional and clinical skills: Perform tests of rigidity, postural instability and bradykinesia.	4	6	10
8. **Peripheral Neuropathy** a-Intellectual skills: a1-Analyze symptoms and detect signs of PN. a2-Construct a differential diagnosis. a3-Select and interpret the appropriate investigation.	6	8	14

a4-Construct a management plan according to specific aetiology including patient education. c- Professional and clinical skills: c1-Perform clinical examination of the sensory system. c2-Perform examination of thickened nerves.			
9. **Disorders of Neuromuscular Junction** a-Knowledge and understanding: a1- Define myasthenia gravis a2- Explain the pathophysiology of myasthenia gravis a3- Describe the CP of myasthenia gravis a4- List the complications. a5- Define Eaton-Lambert disease. a6- list the etiology Eaton-Lambert disease a7- Describe the clinical picture of Eaton-Lambert disease b-Intellectual skills: b1- Select the appropriate investigation b2- Interpret the results of these investigations b3- Outline the management plan both diagnostic and therapeutic for a case of myastnenia garavis b4- Diagnose the emergency situations (myasthenic and cholinergic crisis) based on the clinical presentation	2	4	6

b5-Compose an initial plan for stabilization for emergency situation. B6- Recognize the importance of early diagnosis and management of cases. c- Professional and clinical skills: c1-Perform tests of fatigability c2-Perform clinical signs associated with myasthenia gravis c3-Observe and do pharmacological tests of myasthenia			
10. **Diseases of the Skeletal Muscles** a- Knowledge and understanding: a1-Describe the clinical picture of Myopathy. a2-Point out concepts of selectivity a3-Point out concept pf family history analysis b- Intellectual skills: b1- Analyze symptoms and detect signs to formulate a differential diagnosis for a case of myopathy. b2- Select the appropriate investigation. b3- Combine clinical and investigational data to diagnose a case of myopathy. b4- Outline a treatment plan according to the etiology. b5-discuss different causes of myopathy c- Professional and clinical skills: c1-Perform examination of different skeletal muscles	4	6	10

11. **Diseases of the Spinal Cord (Myelopathy)** a- Knowledge and understanding: Define spinal cord diseases: Myolopathy, epoiconus, conus and cauda aquina lesions. b- Intellectual skills: b1- Interpret symptoms and detect signs of myelopathy and its relevance to the anatomical site of the lesion. b2- Choose the appropriate investigation. b3- outline the management strategy for a case of myelopathy.	4	6	10

12. **Motor Neuron Diseases** a- Knowledge and understanding: a1-Define MND a2-Describe clinical picture of MND a3-Lists the appropriate investigation. b- Intellectual skills: b1- Analyze symptoms and detect signs suggestive of MND b2- Construct a differential diagnosis	4	6	10
13. **Multiple Sclerosis.** a-Knowledge and understanding: a1-Define MS a2-Describe the etiology and pathophysiology	4	6	10

Intellectual skills: 1- Recognize the different presentations 2- Analyze symptoms and detect signs. 3- Select and interpret the appropriate investigations to reach a diagnosis 4- Outline a management plan 5- Recognize the importance or early diagnosis and referral to slow disease regression.			
14. **Epilepsy** a- Knowledge and understanding: a1- Define epilepsy and seizure a2- Recognize the classification of seizures a3- Lists the types of epilepsy syndromes a4- List the causes of seizures and epilepsy a5- List the precipitating factors a6- Describe the clinical picture of different types a7- Describe the pharmacological treatment including proper dose and adverse effects. b- Intellectual skills: b1- Evaluate a case presenting with seizure and construct a differential diagnosis. b2- Construct a treatment plan including treatment of underlying conditions, avoidance of precipitating	2	4	6

factors and selection of appropriate antiepileptic drugs for different types of epilepsy. b3-Manage a case of status epilepticus. b4- Recognize the importance of patient and family education b5- Recognize the importance of monitoring drug kevels to avoid toxicity.			
15. **Sphincteric Disturbances** a- Knowledge and understanding: *By the end of the course, students should be able to:* a1- Describe the nerve supply and neurologic control of the urinary bladder. a2- List lesions causing Sphincteric Disturbances. a3- Describe the different clinical presentations of Sphincteric Disturbances. b- Intellectual skills: Analyze the history of sphinchteric disturbance to put an appropriate differential diagnosis	4	4	8
16.Routine and special techniques in Neurophysiology.	5	7	12
Total hrs.	62	88	150

5. Teaching and Learning Methods	5.1. Lectures. 5.2. clinical rounds. 5.3. Self-training activities such as use of internet and multimedia 5.4. Regular weekly seminars.
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. 2. Practical exam to assess ability of the candidate for applying information studied in the course in history taking, examination and diagnosis. 3. Oral 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.
B. Assessment Schedule (Timing of Each Method of Assessment)	Assessment 1: 2 written exam by the end of the course. Assessment 2: clinical exam. Assessment 3: Oral exam, after the written exam.
C. Weighting of Each Method of Assessment	**Type of Assessment** • **Written** examination 120 • **Practical** examination 90 • **Oral** examination 90 **Total** **300**

	N.B. - *Score of ≥ 60% of the written exam is essential to allow the student to perform both oral & clinical/ practical exams* - *For each exam, ≥ 60% is essential to pass***.**
8. List of References	
A. Course Notes/handouts	1 -Neurology course notes: Prepared by the department staff.
B. Essential Books	-Current diagnosis &treatment Neurology, 3rd edition, 2019 -DeJong's Neurologic examination, 2008 brain's diseases of the nervous system 13th edition.
C. Recommended Text Books	Merritt Textbook of Neurology, 13th edition, 2019.
D. Periodicals, websites	To be determined and update during the course work -Neurology Journal, -Stroke journal, -Epilepsia journal http://www.pubmed.com http://www.medscape.com http://www.sciencedirect.com

Course Coordinator: Dr.Rasha Nady

Head of Department: Prof. **Dr. Nermin Aly Hamdy**

Professor of Neurology, Faculty of medicine – Minia university

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

Blueprint of Neurology and Psychiatry MSc Neurology Examination paper

Postgraduate Neurology Course for MSc degree (2nd part) of Neurology and Psychiatry

(Code: NP 200)

	Topic	Hours	Knowledge %	Intellectual %	% of topic	N of items per topic	Knowledge		Intellectual		Marks
							N of items	Marks %	N of items	Marks	
1	History and clinical examination including speech and cranial nerves	24	50	50	16	4	2	8 %	2	8 %	20
2	Investigations of Neurological Diseases	14	70	30	9.4	3	2	6.5%	1	2.9%	15
3	Neurological	100	75	25	66.6	11	8	49.5	3	17.1	70
4	Routine and special techniques in Neurophysiology.	12	70	30	8	3	2	5.6	1	2.4	15
	Total	**150**			**100%**			**69.6 %**		**30.4 %**	**120**

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نموذج رقم ١١

Psychology course for MSc in Neurology and Psychiatry	**مسمى المقرر**
NP200	**كود المقرر**

جامعة/ أكاديمية المنيا
كلية/ معهد الطب البشري
قسم الباطنة الخاصة
وحدة الأمراض العصبية والنفسية

A- Mareix of Coverage of ILOs by Course Content

Topic	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	**B. Intellectual Skills**	**C. Professional & Practical skills**	**D. General & Transferable Skills**
History and clinical examination including speech and cranial nerves	**1,2**	**1,2,3**	**1,2,3**	**1,2,3,4,5,6,7**
Investigations of Neurological Diseases	**1,2,3,4,5**	**4,5,6**	**1,2,3**	**1,2,3,4,5,6,7**
Neurological disorders	**1,2,3,4,5**	**5,7**	**1,2,3**	**1,2,3,4,5,6,7**
Routine and special techniques in Neurophysiology.	**1,2,3,4,5**	**1,3,5**	**1,2,3**	**1,2,3,4,5,6,7**

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

Methods of teaching and learning	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
Lectures	A1,2,3,4,5	B1,2,3,4,5,6,7,8,9	C1,2,3	D1,2,3,4,5,6,7
Practical	A1,2,3,4,5	B1,2,3,4,5,6,7,8,9	C1,2,3,4,5,6,7,8	D1,2,3,4,5,6,7
Clinical (include grand round)	A1,2,3,4,5	B1,2,3,4,5,6,7,8,9	C1,2,3,4,5,6,7,8	D1,2,3,4,5,6,7
Professional seminars	A1,2,3,4,5	B1,2,3,4,5,6,7	C1,2,3	D1,2,3,4,5,6,7
Training courses and workshops	A1,2,3,4,5	B1,2,3,4,5,6,7,8,9	C1,2,3,4,5,6,7,8	D1,2,3,4,5,6,7
Journal club	A1,2,3,4,5			D.1,2,3,4
Thesis discussion				D1,2,3,4
Online webinars	A1,2,3,4,5	B.1,2,3,4,5,6,7,8,9		D.1,2,3,4,5,6,7

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**
Written exam	**A1,2,3,4,5,6**	**B1,2,3,4,5,6,7**		
Oral exam	**A1,2,3,4,5,6**	**B1,2,3,4,5,6,7,8**	**C1,2,3,4**	**D1,2,3,4,5,6**
Clinical exam	**A1,2,3,4,5,6**	**B1,2,3,4,5,6,7,8**	**C1,2,3,4,5,6,7,8**	**D1,2,3,4,5,6**
Case presentation (both in seminars and online)	**A1,2,3,4,5,6**	**B1,2,3,4,5,6,7,8**	**C1,2,3,4,5,6,7,8**	**D1,2,3,4,5,6**
Master thesis				**D1,2,3,4,5,6**

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Course Specifications of Psychiatry
2nd Part of MSc Program of Neurology and Psychiatry
2022/2023

University: Minia

Faculty: Medicine

Department: Neurology and Psychiatry

1. Course Information

• **Academic Year/level:** Neurology and Psychiatry MSc.	• **Course Title:** 2nd part of MSc Neurology and Psychiatry.	• **Code: NP 200**
• **Number of teaching hours:** - **Lectures:** Total of **62** hours; **2** hours/week - **clinical:** Total of **88** hours; **2** hours/week		
2. Overall Aims of the course	*By the end of the course the student must be able to:* 1- Acquire mastery of basics, methods and tools of scientific research 2- Continuously add developments to the field of psychiatry through research 3- Use the medical knowledge in the field of psychiatry with other relevant sciences and apply such knowledge in practical skills 4- Create solutions for health problems in the field of psychiatry 5- Gain competency in a wide range of professional skills in common areas of specialty, from basic clinical care to evidence based clinical application, and possession of skills to manage independently all problems in the field of psychiatry	

3. Intended learning outcomes of course (ILOs): ***Upon completion of the course, the student should be able to:***	
A- Knowledge and Understanding	A1. Discuss theories, principles and updated knowledge in the fields of Psychiatry. A2. Discuss etiology, pathogenesis, etiology, clinical manifestations, fate and complications of main common disease categories that may affect the Nervous systems. A3. Outline recent scientific development in the fields of disease biomarkers. A4. Describe basics & methods of application of ethics and medico-logical aspects and quality assurance during the professional practice of Psychiatry. A5. Outline the mutual effect of professional practice issues & public health and health policies and methods of maintenance & improvement of public health.
B- Intellectual Skills	B1. Assess & interpret relevant basic information, history taking then correlate them with available clinical data to reach a final correct diagnosis. B2. Solve problems based on analysis of available data through the approach of investigative & analytical thinking by making a list of differential diagnosis for further advanced investigations. B3. Conduct scientific research efficiently. B4. Master writing scientific papers and select suitable journals for publication B5. Assess & manage competently potential risks that may develop during the professional practice of Psychiatry in various practical contexts such as during diagnosing and investigating patients. B6. Relate to the essential skills of basic & recent psychotherapy techniques. B7. Correlate with the skills of critical appraisal & decision making in different professional settings & circumstances during the professional practice of Psychiatry. B8. Interpret innovative methods, tools & ideas in the different aspects of the field of Psychiatry. B9. Manage professionally evidence-based discussion during case-presentation, workshops & seminars

C- Professional and Practical Skills	C1. Dealing with patients and reporting their gross abnormalities and correlate such information with the available provided clinical data. C2. Practice competently standard and recent investigations in Psychiatry. C3. Practice different neurophysiological techniques that enable reaching a final & correct diagnosis C4. Write professionally a Neurophysiology report on evidence-based approach, through analytical approach and correlation of findings together with available clinical data. C5. Evaluate & develop plans for improvement of current methods and tools used in diagnosis. C6. Discuss with consultants the issues of principle techniques and other issues related to safety and maximizing the use of the available resources and ensure maintaining them. C7. Use competently the different technological devices during reporting, archiving & scientific writing. C8. Plan for professional self-development as well as enhancement of performance of others.

D- General and transferable Skills	D1. Demonstrate effective communication skills in all its forms in different settings & events that may involve different groups such as students, junior staff, colleagues, senior staff, technicians, patients and other health care workers D2. Use competently information technology (IT) including data entry & analysis to enhance data management and to achieve improvement of the professional practice D3. Show efficient skills of educating others and assessment of their performance. D4. Demonstrate the capability of evaluation of personal needs and plan for self-development and continuous medical education. D5. Use efficiently available information resources to get principle & updated knowledge related to the field of psychiatry D6. Work competently as a team-leader as well as a team member in different professional contexts. D7. Demonstrate competency for management of scientific meetings and efficient time-management.

4. Course Contents

Topic	Lecture hours/week	Practical/Clinical hours/week	Total No. of hours hours/week
Psychiatry			
1.**History and Clinical Examination** a- Knowledge and understanding: *By the end of the course, students should be able to:* a1- Take adequate history from the patient. b- Intellectual skills: Analyze the history to reach anatomical and etiological provisional diagnosis c- Professional and clinical skills: Perform full Neurological examination	4	2	6
2. **Psychiatric disorders** a- Knowledge and understanding: a1- Explain the updates and evidence-based etiology, clinical picture, diagnosis and management of the following disorders: - Schizophrenia and other psychotic disorders - Mood disorders - Anxiety disorders - Sleep disorders - Personality disorders - Eating disorders - Elimination disorders - Sexual dysfunctions and paraphilias - Somatic symptom and related disorders - Liaison psychiatry - Psychiatric emergencies - Child psychiatry - Geriatric psychiatry - Forensic psychiatry - Psychopharmacology - Psychotherapy - Epidemiology of psychiatric disorders - Laboratory and imaging in psychiatry a2- Mention the principles of: - Psychiatric interview - Psychoanalysis - Ethical issues in psychiatry - Psychometric assessment	4	6	10

a3- List basics of dealing with complicated cases and high-risk groups and those with comorbid other medical conditions a4- Explain the facts and principles of the relevant basic neuroscience related to psychiatry a5- Describe the basics of quality assurance to ensure good clinical care to patients with psychiatric disorders a6- Explain the ethical and scientific principles of medical research a7- List the effects of common health problems in the field of psychiatry on the society b- Intellectual skills: b1- Design and present cases in common psychiatric disorders. b2- Apply the basic and clinically supported sciences which are appropriate to psychiatric disorders. b3- Demonstrate an investigatory and analytic problem-solving thinking approaches to clinical situations related to psychiatric disorders b4- Plan research projects in the field of psychiatry b5- Write scientific papers in the field of psychiatric disorders b6- Lead risk-management activities as part of clinical governs. b7- Plan quality-improvement activities in the field of psychiatric education and clinical practice b8- Create and innovate plans and systems for improvement of clinical practice of psychiatry. b9- Present and defend his/her data in front of a panel of experts. b10- Formulate management plans and alternative decisions in different situations in the field of psychiatric disorders. c- Professional and clinical skills: c1- Take full psychiatric history. c2- Perform complete mental state examination c3- Order the following diagnostic procedures when clinically relevant: - Basic laboratory investigations relevant to psychiatric disorders - Brain and spinal cord CT and MRI - Convenient and video EEG - Neurophysiological studies			

- Psychometric assessment - Abreaction - Drug levels and monitoring - CSF examination - Sleep analysis - TMS c4- Interpret the previously mentioned diagnostic procedures c5- Perform the following therapeutic procedures: - Psychotherapy - ECT - rTMS c6- Carry out patient management plans c7- Counsel and educate patients and their families about their psychiatric conditions c8- Use information technology to support patient care decisions and education c9- Provide health care services aiming at prevention of psychiatric morbidities c10- Work collaboratively with other health care professionals to provide patient-focused care. c11- Write completely all forms of patient charts and sheets including reports evaluating these charts and sheets.			
3.**Psychiatric emergencies** a-Intellectual skills: Explain and analyze updates and evidence-based etiology, clinical picture, diagnosis and management of the following conditions: - Suicide - Neuroleptic malignant syndrome - Agitation - Substance intoxication - Critically ill patient c- Professional and clinical skills: Perform examination of different emergency cases Order and interpret relevant needed investigations	6	8	14

Prescribe the needed therapeutic interventions			
Total hours	62	88	150

5. Teaching and Learning Methods	5.1. Lectures. 5.2. clinical rounds. 5.3. Self-training activities such as use of internet and multimedia 5.4. Regular weekly seminars.
6. Teaching and Learning Methods for students with limited Capacity	
7. Student Assessment	
A. Student Assessment Methods	4. Written exam to assess the capability of the candidate for assimilation and application of the knowledge included in the course. 5. Practical exam to assess ability of the candidate for applying information studied in the course in history taking, examination and diagnosis. 6. Oral 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.
B. Assessment Schedule (Timing of Each Method of Assessment)	Assessment 1: 2 written exam by the end of the course. Assessment 2: clinical exam. Assessment 3: Oral exam, after the written exam.
C. Weighting of Each Method of Assessment	**Type of Assessment** • **Written** examination 120 • **Practical** examination 90

	• **Oral** examination 90 **Total 300** ***N.B.*** - *Score of ≥ 60% of the written exam is essential to allow the student to perform both oral & clinical/ practical exams* - *For each exam, ≥ 60% is essential to pass***.** •
8. List of References	
A. Course Notes/handouts	1 -Psychiatry course notes: Prepared by the department staff.
B. Essential Books	-Current diagnosis &treatment Psychiatry, 3rd edition, 2019 - Brain Calipers - Sim's Descriptive psychopathology
C. Recommended Text Books	Synopsis of psychiatry. Kaplan and Sadock. 2021
D. Periodicals, websites	To be determined and update during the course work -Psychiatry Journal, http://www.pubmed.com http://www.medscape.com http://www.sciencedirect.com

Course Coordinator: Dr. Mustafa Mahmoud
Head of Department: Prof. **Dr. Nermin Aly Hamdy**

Professor of Psychiatry, Faculty of medicine – Minia university

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

Blueprint of Psychiatry MSc Psychiatry Examination paper

Postgraduate Psychiatry Course for MSc degree (2nd part) of Neurology and Psychiatry

(Code: NP 200)

	Topic	Hours	Knowledge %	Intellectual %	N of items per topic	Written exam		% of Marks
						Knowledge	Intellectual	
1	History and clinical examination	30	50	50	2	1	1	26
2	Psychiatric disorders	50	50	50	4	2	2	40
3	Psychiatric emergencies	70	50	50	6	3	3	54
	Total	**150**			**12**			**120**

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نموذج رقم ١١

جامعة/ أكاديمية	المنيا
كلية/ معهد	الطب البشري
قسم	الباطنة الخاصة وحدة الأمراض العصبية والنفسية

مسمى المقرر	**Psychology course for MSc in Neurology and Psychiatry**
كود المقرر	**NP200**

A- Mareix of Coverage of ILOs by Course Content

Topic	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	**B. Intellectual Skills**	**C. Professional & Practical skills**	**D. General & Transferable Skills**
Psychiatric History and Mental state examination	**1,2**	**1,2,3**	**1,2,3**	**1,2,3,4,5,6,7**
Psychiatric disorders	**1,2,3,4,5**	**4,5,6**	**1,2,3**	**1,2,3,4,5,6,7**
Psychiatric emergencies	**1,2,3,4,5**	**5,7**	**1,2,3**	**1,2,3,4,5,6,7**

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

Methods of teaching and learning	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
Lectures	A1,2,3,4,5	B1,2,3,4,5,6,7,8,9	C1,2,3	D1,2,3,4,5,6,7
Practical	A1,2,3,4,5	B1,2,3,4,5,6,7,8,9	C1,2,3,4,5,6,7,8	D1,2,3,4,5,6,7
Clinical (include grand round)	A1,2,3,4,5	B1,2,3,4,5,6,7,8,9	C1,2,3,4,5,6,7,8	D1,2,3,4,5,6,7
Professional seminars	A1,2,3,4,5	B1,2,3,4,5,6,7	C1,2,3	D1,2,3,4,5,6,7
Training courses and workshops	A1,2,3,4,5	B1,2,3,4,5,6,7,8,9	C1,2,3,4,5,6,7,8	D1,2,3,4,5,6,7
Journal club	A1,2,3,4,5			D.1,2,3,4
Thesis discussion				D1,2,3,4
Online webinars	A1,2,3,4,5	B.1,2,3,4,5,6,7,8,9		D.1,2,3,4,5,6,7

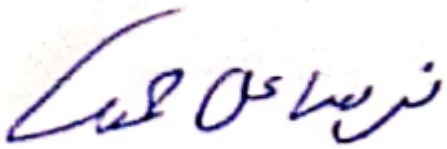
C. Matrix of Coverage of Course ILOs by Methods of Assessment

Methods of assessment	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	**B. Intellectual Skills**	**C. Professional & Practical skills**	**D. General & Transferable Skills**
Written exam	**A1,2,3,4,5,6**	**B1,2,3,4,5,6,7**		
Oral exam	**A1,2,3,4,5,6**	**B1,2,3,4,5,6,7,8**	**C1,2,3,4**	**D1,2,3,4,5,6**
Clinical exam	**A1,2,3,4,5,6**	**B1,2,3,4,5,6,7,8**	**C1,2,3,4,5,6,7,8**	**D1,2,3,4,5,6**
Case presentation (both in seminars and online)	**A1,2,3,4,5,6**	**B1,2,3,4,5,6,7,8**	**C1,2,3,4,5,6,7,8**	**D1,2,3,4,5,6**
Master thesis				**D1,2,3,4,5,6**

Course coordinator
Ass. Prof. Moustafa Mahmoud

Head of department
Prof. Nermin Ali Hamdy

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



Course Specification of Medical Ethics
Master degree of Neuropsychiatry (2022-2023)

University: Minia

Faculty: Medicine

Program on which the course is given: Master degree of Neuropsychiatry
Major or minor element of program: Medical ethics, ethics of medical research
Department offering the program: Neuropsychiatry Department
Department offering the course: Forensic Medicine & Clinical Toxicology Department
Academic year / Level: First part

A. Basic Information		
• **Academic Year/level:** Post graduate; 1st Part MSC	• **Course Title**: Course Specification of Medical Ethics	• **Code**:
• *Number of teaching hours:* - *Lectures: Total of 30 hours; ٢ hour/week* - **Practical:** Total of 15 hours; 1 hour/week		
B- Professional Information		
8. Overall Aims of the course	By the end of the course the student should be able to identify the value of studying and practicing medicine, the duties of doctors towards their patients, colleagues and community, the ethics in medical consultations among colleagues and also able to explain respect the patient's confidentiality and secrets, recognize the role of health care providers in the community and describe medical errors, negligence and legal issues, ethics of medical research especially on human beings and finally able to explain ethics and evidence based medicine	
9. Intended learning outcomes of course (ILOs): ***Upon completion of the course, the student should be able to:***		
E- Knowledge and Understanding	**A.1-** Identify the basic concept of learning and practicing medicine from the religious and human point of view. **A.2-** Identify the very beneficial impressive history of medicine; ethics related. **A.3-** Classify the main principles of medical ethics.	

	A.4- Recognize an integrated approach to deal with patients, their families, community and medical staff in an ethical, legal and human manner. **A.5-** Identify rules in low and regulations to deal with patients in practicing medicine. **A.6-** Explain the standard and accredited methods of clinical research especially on human beings.
F- Intellectual Skills	**B.1-** Design approach to patients in different situations; critical and noncritical ones. **B.2-** Develop adequate communication skills with patients, community and colleagues. **B3-** Conclude in medical researches on clear ethical basis. **B.4-** Use knowledge and learn according to standard basis worldwide. **B.5-** Apply and practice medicine according to concepts of evidence based medicine. **B.6-** Recognize common ethical dilemma and suggest a proper solution.
G- Professional and Practical Skills	**C.1-** Use a high professional approach with colleagues and patients. **C.2-** Modify steps of upgrading his/her educational, academic and clinical carriers. **C.3-** Use the standard guidelines in managing patients. **C.4-** Identify what is called as clinical governance and auditing his /her Performance.
H- General and transferable Skills	**D.1-** Identify how to respect his/herself and the profession. **D.2-** Develop adequate behavior and skill communications with community. **D.3-** Modify life and live like others sharing social and national affairs. **D.4-** Develop the capacity of helping people and share in upgrading their culture and education.

TOPIC	Lecture Hours	Practical Hours	Total hours
Medical Responsibility and Duties of the physician	2	1	3
Medico-legal aspect of cloning	2	1	3
Defensive Medicine	2	1	3
Diagnosis of death & Death Certificates	2	1	3
Consent in medical field	2	1	3
Medical malpractice	2	1	3
Medical syndicate	2	1	3
Professional secrecy	2	1	3
Physician disciplinary proceeding	2	1	3
Domestic Violence	2	1	3
Euthanasia (Mercy death)	2	1	3
Ethics in medical research	2	1	3
Medical reports	2	1	3
Rules of using addictive drugs among physicians	2	1	3
Medical certificates	2	1	3
Total	(30 hr.) ٢/W	(15 hr.) 1/W	(45 hr.) 3/W

	D.5- Identify how to participate in the national and social affairs and responsibilities.

Teaching and Learning Methods	4.1 - Straight lectures; power point presentations 4.2 - Practical lessons 4.3 - Brain storming with the students 4.4 - Questions and Answers
Teaching and Learning Methods to students with limited Capacity	(Not applicable)
Student Assessment	
A. Student Assessment Methods	**TENDANCE CRITERIA**: by Faculty laws (log book) **ASSESSMENT TOOLS:** *Final Written exam: short essay to asses knowledge and understanding. problem solving to asses intellectual skills MCQ to assess knowledge and intellectual skills. *Oral exam; to asses knowledge and understanding. Also intellectual skills, attitude, and communication. *Practical exam: to assess practical and professional skills.
B. Assessment Schedule	• Final Written exam week: 24-28 • Oral exam week: 24-28 • Practical exam week: 24-28
C. Weighting of Assessment	• Final Written exam 40% (40 Marks) • Oral & Practical exams 60% (60 Marks) • Total 100% (100 Marks)
List of references	
A. Course Notes/handouts	Department book by staff members. Log Book.

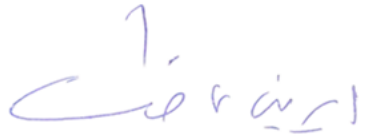
B. Essential Books (text books)	Medical Ethics Manual, 2nd Edition John R. Williams, 2009. Medical Ethics, 2nd Edition, Michael Boylan, 2014.
C. Recommended Books	Text book of medical ethics, Erich H. Loewy, 1989
D. Periodicals	Journal of Medical Ethics Journal of Medical Ethics and History of Medicine
E. Web sites	https://en.wikipedia.org/wiki/Medical_ethics https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5074007/
Facilities required for teaching and learning	Classrooms for theoretical lectures and tutorials

Course Coordinators:

Prof. Dr. Morid Malak Hanna

Dr. Mennatallah Mahmoud Ahmed

Head of Department: **Prof. Dr. Irene Atef Fawzy**



Date of last update & approval by department council: 5/3/2023

نموذج (١١أ)

جامعة/أكاديمية : .....المنيا.....

كلية / معهد: .....الطب البشرى.....

قسم: .....الطب الشرعى والسموم الأكلينكية.....

مسمى المقرر	Course Specification of Medical Ethics Master degree of all clinical (First part))
كود المقرر	

A. The Matrix of Coverage of Course IL by Contents

Contents	Intended Learning Outcomes (ILOs)			
	A. Knowledge & Understanding	B. Intellectual Skills	C. Professional & Practical skills	D. General & Transferable Skills
	A	B	C	D
Medical Responsibility and Duties of the physician	A1,3	B4	C1	D1,2
Medicolegal aspect of cloning	A1,2	B3	-	-
Defensive Medicine	A4,5	B6	C3	D3
Diagnosis of death & Death Certificates	A1,2	B2	-	-
Consent in medical field	A2,5	-	-	-

Medical malpractice	**A1,6**	**B5**	**C4**	**D5**
Medical syndicate	**A5,6**	**B3**	**-**	**-**
Professional secrecy	**A1,2,3**	**-**	**-**	**D4**
Physician disciplinary proceeding	**A2,4,5**	**B2**	**-**	**D1.2,3**
Domestic Violence	**A2,4,6**	**-**	**C2**	**-**
Euthanasia (Mercy death)	**A1,3,4**	**B1**	**-**	**-**
Ethics in medical research	**A1,2**	**-**	**-**	**-**
Medical reports	**A3,4**	**-**	**C1,2**	**D1.2**
Rules of using addictive drugs among physicians	**A1,4**	**B1,2**	**-**	**-**
Medical certificates	**A1,6**	**B3,5**	**C3**	**D1,4**

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	A1,2,3,4,5,6	B1,2,3,4,5,6	-	-
Practical	-	-	C1,2,3,4	-
Presentation/seminar	-	-	-	D1,2,3,4,5
Journal club	-	-	-	-
Thesis discussion	-	-	-	-
Training courses & workshops	-	-	-	D1,2,3,4,5

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	A1,2,3,4,4,5,6	B1,2,3,4,5	-	-
Practical exam	-	-	C1,2,3,4,5	-
Oral Exam	A1,2,3,4,4,5,6	B1,2,3,4,5	-	-

d

Blueprint of Forensic Medicine and Clinical Toxicology Department

Blueprint of 1st master of Neuropsychiatry

Postgraduates" Medical Ethics Examination Paper (40 marks)

Topic	Hours	Knowledge %	Intellectual %	% of topic	N of items per topic	Knowledge	Intellectual	Actual Mark
Medical Responsibility and Duties of the physician & Defensive		75	25	13.25	1	5.32	10	5
Medico-legal aspect of cloning		75	25	6.66	1	2.66		3
Diagnosis of death & Death Certificates		75	25	6.66	1	2.66		3
Consent in medical field & Medical malpractice		70	30	13.32	1	5.32	10	5
Medical syndicate &Professional secrecy		75	25	13.32	1	5.32		5

Physician disciplinary proceeding & Euthanasia (Mercy death)		75	25	13.32	1	5.32	10	5
Domestic violence		70	30	6.66	1	2.66		3
Ethics in medical research		80	20	6.66	1	2.66		3
Medical reports & Medical certificates		80	20	13.32	1	5.42	10	5
Rules of using addictive drugs among physicians		75	25	6.76	1	2.66		3
Total				100%		4	40	40