

Peer Revision

Reviewers	University	Date of Revision
- Prof. Dawlat Salem	Cairo	10/12/2011
- Prof. Ahmad K. Mansur	Mansura	28/11/2011

Program specification of Master Degree in Neurology and psychiatry

Sohag University

faculty of Medicine

A. Basic Information

- 1- **Program Title: master in Neurology and psychiatry**
- 2- Program Type: Single
- 3- Faculty: Faculty of Medicine
- 4- Department: Department of Neurology and psychiatry.
- 5- Coordinator: Prof.Dr. Gharib Fawi Mohamed
- 6- Assistant coordinator: Alaa Aldin Sedky Bakhet
- 7- External Evaluator: Prof. Saher Hashim
- 8- Last date of program specifications approval: Faculty council No. "317", decree No. "1533" dated 17/12/2018.

B. Professional Information

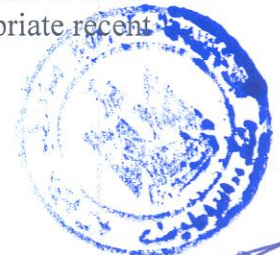
1. Program Aims:

The aim of this program is to provide the postgraduate student with the medical knowledge and skills essential for the practice of specialty and necessary to gain further training and practice in the field of neurology and psychological medicine through providing:

1. Scientific knowledge essential for practice of neurology and psychological medicine according to the international standards.
2. Skills necessary for proper diagnosis and management of patients in the field of neurology and psychological medicine including diagnostic, problem solving and decision making.
3. Ethical principles related to the practice in this specialty.
4. Active participation in community needs assessment and problems solving.
5. Maintenance of learning abilities necessary for continuous medical education.
6. Maintenance of research interest and abilities.

2. Attributes of the of postgraduate:

1. Mastering the basics of scientific research methodologies.
2. The application of the analytical method and used in the field of Neuro-psychiatry
3. The application of specialized knowledge and integrate it with the relevant knowledge in practice.
4. Be aware of the problems and has modern visions in the field of Neuro-psychiatry
5. Identify problems in the field of Neuro -psychiatry and find solutions to them.
6. Mastery of professional skills in this specialty and use of the appropriate recent technologies supporting these skills.
7. Communicate effectively and the ability to lead work teams.
8. Decision-making in his professional contexts.



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6. Mastery of professional skills in this specialty and use of the appropriate recent technologies supporting these skills.
7. Communicate effectively and the ability to lead work teams.
8. Decision-making in his professional contexts.

9. To employ and preserve the available resources to achieve the highest benefit.
10. Awareness of his role in the community development and preservation of the environment at the lights of both international and regional variables.
11. Reflects the commitment to act with integrity and credibility, responsibility and commitment to rules of the profession.
12. Academic and professional self development and be capable of continuous learning.

3. Intended Learning Outcomes (ILOs)

a) Knowledge and Understanding:

By the end of the study of master program in neurology and psychological medicine the Graduate should be able to:

- a1. Describe how to explain various neurological and psychiatric terms to medicals & non-medicals.
- a2. Classify the various neurological and psychiatric disorders
- a3. Mention the common theories and factors explaining the etiology in various neurological and psychiatric disorders.
- a4. Mention therapeutic options in various neurological and psychiatric diseases
- a5. Mention various neurophysiologic diagnostic tools and psychometric tests
- a6. Describe the basic diagnostic criteria in neurological and psychiatric disorders.
- a7. List the common differential diagnosis in various neurological and psychiatric disorders.
- a8. Mention the common interventional therapeutic methods in handling neurological and psychiatric emergencies
- a9. Mention the known good & bad prognostic factors in common neurological and psychiatric disorders.
- a10. Describe Scientific developments in the field of Neurology and Psychological Medicine.
- a11. Describe The mutual influence between professional practice and its impacts on the environment.
- a12. Mention Ethical and legal principles of professional practice in the field of Neurology and Psychological Medicine.
- a13. List the principles and fundamentals of quality in professional practice in the field of Neurology and Psychological Medicine.
- a14. List the basics and ethics of scientific research

b) Intellectual Skills

By the end of the study of master program in neurology and psychological medicine the Graduate should be able to:

- b1. Interpret data acquired through history taking to reach a provisional diagnosis in neuropsychiatric disorders
- b2. Select from different diagnostic alternatives the one that help reaching a final diagnosis in neuropsychiatric problems
- b3. Link between knowledge for Professional problems' solving.
- b4. Conduct research studies that adds to knowledge
- b5. Assess risk in professional practice in the field of neurology and psychological medicine .

- b6. Plan to improve performance in the field of neurology and psychological medicine
- b7. Identify neuropsychiatric problems and find solutions.
- b8. Analyze researches and issues related to the Neurology and Psychological Medicine.

c) Professional and Practical Skills

By the end of the study of master program in neurology and psychological medicine the Graduate should be able to:

- c1. Master of the basic and modern professional clinical skills in the area of neurology and psychological medicine.
- c2. Write and evaluate medical reports.
- c3. Evaluate and develop methods and tools existing in the area of neurology and psychological medicine.
- c4. Perform different neurophysiological methods (e.g NCS ,EMG,EEG and evoked potentials) and psychometric assessment .
- c5. Train junior staff through continuous medical education programs.
- c6. Design new methods, tools and ways of professional practice.

d) General and Transferable Skills

By the end of the study of master program in neurology and psychological medicine the Graduate should be able to:

- d1. Communicate effectively by all types of effective communication .
- d2. Use information technology to serve the development of professional practice.
- d3. Assess himself and identify personal learning needs.
- d4. Assess himself and identify his personal learning needs.
- d5. Use different sources to obtain information and knowledge.
- d6. Work in a team and team's leadership in a various professional contexts .
- d7. Manage time efficiently.
- d8. Learn himself continuously

4. Academic Standards

Suggested NARS-based ARS

Sohag Faculty of medicine adopted the general National academic Referenc Standards (NARS) provided by the national authority for quality assurance and accreditation of education (naqaae) for postgraduate programs. This was approved by the faculty council decree NO.6854, in it's session NO177 dated: 18/5/2009 based on these NARS; Academic reference standards (ARS) were suggested for this program. These ARS were revised by external evaluator and approved by the faculty council decree No.7528 in session No 191 dated 15/3/2010. The adoption of NARS and the suggested ARS were approved by University council degree No 587, in its cession No.60. dated 26-12-2011.

5. Curriculum Structure and Contents

5.a- Program duration 6 semester (3 years)

Subject	hours /week		
	Lectures	Practical	Clinical
First Part:			
1. Human Anatomy &	٢	---	---

Embryology of CNS			
2. Medical Microbiology and Immunology and immunology	2	---	---
3. CNS Medical Physiology	2	---	---
4. clinical pharmacology of CNS and endocrine	2	---	---
5. CNS pathology	1	2	---
6. Applied biostatistics and research methodology	1	2	---
Second Part:			
1. Neurology	1.5	---	3.5
2. Psychological medicine (psychiatry)	1.5	---	3.5
3. General and special psychology	0.5	---	1.5
4. Internal medicine	2	2	

code	Item	No	%	
b.i	Total credit hours	Compulsory	50	100
		Elective	0	0
		Optional	0	0
b.iii	credit hours of basic sciences courses	7	14	
b.iv	credit hours of courses of social sciences and humanities	0	0	
b.v	credit hours of specialized courses:	32	64	
b.vi	credit hours of other course	--	--	
b.vii	Practical/Field Training	0	10	
b.viii	Program Levels (in credit-hours system):			
	Level 1: 1 st part	10	20	
	Level 2: 2 nd Part	24	48	
	Level 3: Thesis	6	12	

6. Program Courses

6.1- Level/Year of Program ...1.....

Semester...1.....

First Part: a. Compulsory

Course Title	Total No of hrs	No. of hours /week			Programme ILOs Covered (By No.)
		Lect.	Lab.	clinical	
Human Anatomy & Embryology of CNS	2	2	---	---	a5,b3,c1,d5
Medical Microbiology and Immunology and immunology	2	2	---	---	a3,b3,c1,d5
CNS Medical Physiology	2	2	---	---	a1,b3,c1,d5
clinical pharmacology of	2	2			a4,b5,c1,d5

CNS and endocrine					
CNS pathology					a3,b3,c1,d5
Applied biostatistics and research methodology	45	1	2	---	b5,c6,d2,d5

Second Part:

a. Compulsory

Course Title	Total No of hrs	No. of hours /week			Programme ILOs Covered (By No.)
		Lect.	Lab.	Clinical	
Neurology	210	1.5		3.5	a1,a2,a3,a4,a5,a6,a7,a8,a9,a10,a11,a12,a13,a14 b1 ,b2,b3,b4, b6,b7,b8 c1,c2,c3,c4,c5,c6 d1,d2,d3,d4,d5,d6,d7,d8
Psychological medicine (psychiatry)	210	1.5		3.5	a1,a2,a3,a4,a5,a6,a7,a8,a9,a10,a11,a12,a13,a14 b1 ,b2,b3,b4, b6,b7,b8 c1,c2,c3,c4,c5,c6 d1,d2,d3,d4,d5,d6,d7,d8
General and special psychology	90	0.5	1.5		a1,b2 ,b3,c1,d5
Internal medicine	60	0.5	0.5		a7,b1 ,b3,c1,d5

7. Program Admission Requirements

I- General Requirements.

1. Candidate should have either:
 - i. MBBch degree from any Egyptian Faculty of Medicine or
 - ii. Equivalent Degree from Medical Schools abroad approved by the ministry of high Education.
2. Candidate should pass the house office training year.
3. Those who are not university hospital residents should pass a training for at least 12 months in one of the known hospitals.
4. Follow postgraduate bylaw Regulatory rules of Sohag Faculty of Medicine approved by the ministerial decree No. (44), dated 6/1/2010.

II- Specific Requirements.

1. Candidates graduated from Egyptian Universities should have at least "Good Rank" in their final year/ cumulative years examination, and grade "Good Rank" in Neurology course too.
2. Candidate should know how to speak & write English well

3. Candidate should have computer skills

8. Regulations for Progression and Program Completion

Duration of program is 50 credit hours (≥ 4 semesters ≥ 3 years), starting from registration till 2nd part exam; divided to:

First Part: (15 Credit hours ≥ 6 months ≥ 1 semester):

- Program-related basic & clinical sciences & research Methodology, Ethics & medical reports, Biostatistics and computer.
- 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 October — 2nd in April.
- At least 50% of the written exam is needed to pass in each course.
- For the student to pass the first part exam, a score of at least 60% (Level D) in each course is needed.
- Those who fail in one course need to re-exam it only for the next time only, and if re-fail, should register for the course from the start.

Thesis/Essay(6 Credit hours ≥ 6 months=1 semester):

- Completion of the 1st part credit hours and passing the exams are pre requisites for documentation of the **Thesis/Essay** subject.
- Should be completed, defended and accepted after passing the 1st part examination, and at least one month before allowing to enter 2nd part final examination.
- Accepting the thesis is enough to pass this part.

Second Part: (24 Credit hours ≥ 18 months= 3 semesters):

- Program related specialized science of Neurology courses.
- Completion of the 1st part credit hours and passing the exams are pre requisites for documentation of the 2nd part courses.
- After passing at least:
 - University hospital residents: 36 months residency in the department of Obstetrics & Gynecology.
 - Residents in other places: Completed 36 months residency; 12 months of them training in the department of Neurology.
- The students should pass the 1st part before asking for examination in the 2nd part.
- Fulfillment of the requirements in each course as described in the template and registered in the log book (5 Credit hours; with obtaining $\geq 75\%$ of its mark) is a prerequisite for candidates to be assessed and undertake part 1 and part 2 examinations; the credit hours of the logbook are calculated as following:
 - Each Cr. Hr.= 60 working Hrs.
 - Logbook= 5 Cr. Hr. X 60 working Hrs = 300 Working Hrs.
 - Collection of working Hrs. is as following:

Activity		Hrs
Grand rounds	اجتماع علمي موسع	٦
Training courses	دورات تدريبية	12/ day

Conference attendance	حضور مؤتمرات علمية داخلي خارجية	١٢/day 18/day
Thesis discussion	حضور مناقشات رسائل	٦
Workshops	حضور ورش عمل	١٢/day
Journal club	ندوة الدوريات الحديثة	٦
Seminars	لقاء علمي موسع	٦
Morbidity and Mortality conference	ندوة تحليل المخاطر المرضية أوالوفاة	٦
Self education program	برنامج التعليم الذاتي	٦

- Two sets of exams: 1st in October - 2nd in April.
- At least 50% of the written exam is needed to pass in each course.
- For the student to pass the 2nd part exam, a score of at least 60% (Level D) in each course is needed.

9. Methods of student assessments:

Method of assessment	weight	The assessed ILOs
1-Activities		- General transferable skills, intellectual skills
2-Written Exams: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	50%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills
3-OSCE/ OSPE		-Practical skills, intellectual skills, general transferable skills
4-Structured Oral Exams	50%	- Knowledge, Intellectual skills, General transferable skills

Assessment schedule:

Part I:

- Human Anatomy & Embryology: Written Exam (2 hours) + Structured oral Exam
- Medical Microbiology and Immunology: Written Exam (2 hours) + Structured oral Exam
- Medical Physiology : Written Exam (2 hours) + Structured oral Exam
- Clinical Pharmacology: Written Exam (2 hours) + Structured oral Exam
- Pathology: Written Exam (2 hour) + Structured oral Exam+ OSPE
- Biostatistics & Computer and Research Methodology: Written Exam (2 hours) + Structured oral Exam+ OSPE

Part II:

- Neurology: Two Written Exams (3 hours for each) + OSCE + Structured oral Exam.
- Psychology: Two written Exams (3 hours for each) + OSCE + Structured oral Exam
- Psychiatry: Written Exam (3 hours) + Structured oral Exam.
- Internal Medicine : Written Exam (3 hours) + OSCE + Structured oral Exam.

10. Evaluation of Program Intended Learning Outcomes

Evaluator	Tool	Sample
1- Senior students	Questionnaire	۲
2- Alumni	Questionnaire	۱۰
3- Stakeholders (Employers)	Questionnaire	۲۰
4-External Evaluator(s) (External Examiner(s))	Report	۱
5- Other		

Course specification of Human Anatomy & Embryology in master degree in neurology and psychological medicine

Sohag University

Faculty of medicine

1. **Program(s) on which the course is given:** master degree in Neurology and psychiatry
2. **Major or minor element of programs:** minor
3. **Department offering the program:** Neurology and psychiatry
4. **Department offering the courses:** Human Anatomy & Embryology department
5. **Academic year /level/:** 1st part
6. **Date of specification approval:** Faculty council No. "317", decree No. "1533" dated 17/12/2018

A. Basic Information

Title: Course specification of Human Anatomy & Embryology in master degree in Neurology and psychiatry

Code: ANA 0518-200

Total hours:

Module	Total	Lecture	Practical	Credit
Anatomy	30	30	-	2

B. Professional Information

1. Overall Aims of Course

By the end of the course the student should be able to have the professional knowledge about the Human Anatomy & Embryology and embryology of the central nervous system.

2. Intended Learning Outcomes of Course (ILOs):

a) Knowledge and understanding

a1. Mention various neurophysiologic diagnostic tools on anatomical bases

b) Intellectual skills

b1. Link between knowledge in Human Anatomy & Embryology for Professional problems' solving.

c) Professional and practical skills:

c1. Master of the basic anatomical and modern professional clinical skills in the area of neurology and psychological medicine.

d) General and Transferable skills:

d1. Use different sources to obtain information and knowledge about Human Anatomy & Embryology.

3. Contents:

Lectures	No. of hours	lectures	practical
<u>Embryology of CNS and congenital anomalies</u>	4	4	
<u>Human Anatomy & Embryology of the brain</u>			
Brain stem and cerebellum	2	2	
Cranial nerves	4	4	
Diencephalon	4	4	
Cerebral hemispheres	2	2	
Ventricles and coverings of the brain	2	2	
Spinal cord	2	2	
Vascular supply	2	2	
Visual system	2	2	
Auditory system	2	2	
Vestibular system	2	2	
Autonomic nervous system	2	2	
Total	30	30	
Credit	2	2	

4. Teaching and Learning Methods:

- 4.1- Lectures
- 4.2- Assignment

5. Student Assessment Methods:

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.2-Written Exam: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
5.3-Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills

Assessment Schedule:

- Assessment 1: written exam week 15
- Assessment 2 Structured Oral Exam week 15
- Assessment 4 Attendance and absenteeism throughout the course, Field convoys participation

Assessment 5 Computer search assignment performance

Weighting of Assessments

Final- written Examination	50%
Structured Oral Exam	50%
Total	100%

Formative only assessments: attendance and absenteeism

6. List of References:

6.1- Essential Books (Text Books)

- Fitzgerald M.J.T. (2016): The anatomical basis of medicine and surgery. By Standing s., ELIS H., Healy J. C., Johnson D. and Williams A. Gray's Anatomy. Elsevier; London, New York. Sydney. Toronto.

6.2- Recommended Books

- Stevens A. and Lowe J. S. (2015): Human histology; 5th edition; edited by Elsevier Mosby

- Colored Atlas of anatomy.

- Martini F. H., Timmons M. J. and McKinley M.P. (2015): Human anatomy; 10 edition.

- Tortora G. J. and Nielson M.T. (2016): Principles of human anatomy 14 edition; Edited by John Wiley and Sons ; United states.

- McMinn R.M.H. (2017): Lasts anatomy regional and applied chapter 7; 14 edition, edited by Longman group UK.

6.3- Periodicals, Web Sites, etc

1. www.instantanatomy.net

2. www.neuroanatomy.org

7. Facilities Required for Teaching and Learning

1-Adequate infrastructure:

including teaching places (teaching class, teaching halls,), comfortable desks, good source of aeration, bathrooms, and good illumination, and safety & security tools.

2- Teaching tools:

including screens, computers including CD (RW), data shows, projectors, flip charts, white boards, video player, digital video camera, scanner, copier, color and laser printers.

Course Coordinator: Dr . Mohamed Al-Badry

Head of Department: Prof..Mohamed Al-Badry.

Date: 18/12/2011, **Revised:**1/9/2012, **Revised:**1/12/2013, **Revised:**1/12/2018

Course specification of Medical Microbiology and Immunology & Immunology in master degree in Neurology and psychiatry

Sohag University

Faculty of medicine

1. Program(s) on which the course is given: master degree in Neurology and psychiatry
Major or minor element of programs: minor
2. Department offering the program: Neurology and psychiatry
3. Department offering the courses: Microbiology and Immunology & Immunology
4. Academic year /level/: 1st part
5. Date of specification approval: Faculty council No. "317", decree No. "1533" dated 17/12/2018

A. Basic Information

Title: Course specification of Medical Microbiology and Immunology & Immunology in master degree in Neurology and psychiatry

Code: MIC 0518-200

Total hours:

Module	Total	Lecture	Practical	Credit
Medical Microbiology and Immunology & Immunology	30	30	-	2

B. Professional Information

1. Overall Aims of Course

- By the end of the course the postgraduate student should be efficiently able to have basic knowledge of the microorganisms affecting human beings all over the world and particularly in Egypt
- And learn to use the knowledge gained from applied Medical Microbiology and Immunology to better understand the pathology, clinical symptoms, complications and the laboratory tests needed for diagnosis of each disease, in particular how to use microbiological testing in determining antibiotic prescription.
- The student is also expected to acquire advanced knowledge about the structure and function of the immune system and the role of the immune system in health and disease.

2. Intended Learning Outcomes of Course (ILOs):

a) Knowledge and Understanding:

- a1. Mention different immunological factors explaining the etiology in various neurological and psychiatric disorders and appropriate laboratory diagnostic tests.

b) Intellectual Skills:

- b1. Link between knowledge in Medical Microbiology and Immunology and immunology for Professional problems' solving.

c) Professional and Practical Skills:

c1. Master of the basic microbiological and immunological and modern professional clinical skills in the area of neurology and psychological medicine.

d) General and Transferable Skills:

d2. Use different sources (computer and internet) to obtain information and knowledge about Medical Microbiology and Immunology and immunology .

3. Conents:

Lectures	No. of hours	Lectures	Practical
<u>General Bacteriology</u>			
Bacterial Human Anatomy & Embryology& Medical Physiology	1	1	
Bacterial genetics	1	1	
Recombinant DNA technology	2	2	
Antibiotics	1	1	
Sterilization & Disinfection	1	1	
<u>Systematic Bacteriology</u>			
Gram +ve cocci	2	2	
Gram –ve cocci	2	2	
Gram +ve bacilli	2	2	
Gram –ve bacilli(1)	2	2	
<u>General virology</u>	2	2	
<u>Systematic Virology</u>			
RNA viruses	2	2	
DNA viruses	2	2	
<u>Mycology</u>			
Fungal classifications	1	1	
Oppportunistic mycosis& Antifungal drugs	1	1	
<u>Immunology</u>			
Congenital & Acquired Immunity	2	2	
Immunological Cells	2	2	
mmunodeficiency	2	2	
<u>Applied Medical Microbiology and Immunology</u>	2	2	
<u>Total</u>	30	30	
<u>Credit</u>	2	2	

4. Teaching and Learning Methods:

- 4.1- Lectures
- 4.2- Assignment

5. Student Assessment Methods:

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism	- General transferable skills, intellectual skills
5.2-Written Exam: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
5.3-Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills

Assessment Schedule:

6.2-Assessment schedule:

- Assessment 1: written exam week 15
- Assessment 2 Structured Oral Exam week 15
- Assessment 4 Attendance and absenteeism throughout the course, Field convoys participation
- Assessment 5 Computer search assignment performance

Weighting of Assessments

Final- written Examination	50%
Structured Oral Exam	50%
Total	100%

Formative only assessments: attendance and absenteeism

6. List of References:

6.1- Essential Books (Text Books):

Medical Microbiology and Immunology and immunology by Prof. Abba Elmeshad

6.2- Recommended Books:

Jawetz Medical Microbiology and Immunology 2016.
Roitt Essential Immunology.
Abbas Clinical Immunology
Alberts Molecular Biology
A coloured Atlas of Medical Microbiology and Immunology.
Topley and Wilson, Medical Microbiology and Immunology

6.3- Periodicals, Web Sites, etc

Medical Microbiology and Immunology

Immunology
<http://mic.sgmjournals.org/>

7. Facilities Required for Teaching and Learning

1-Adequate infrastructure:

including teaching places (teaching class, teaching halls,), comfortable desks, good source of aeration, bathrooms, and good illumination, and safety & security tools.

2- Teaching tools:

including screens, computers including CD (RW), data shows, projectors, flip charts, white boards, video player, digital video camera, scanner, copier, color and laser printers.

Course Coordinator: Dr. Ekram Abd-El Rahman

Head of Department: Dr . Abeer Shenief

Date: 18/12/2011, **Revised:**1/9/2012, **Revised:**1/12/2013, **Revised:**1/12/2018

Course specification of Medical Physiology in master degree in Neurology and psychiatry

Sohag University

Faculty of Medicine

1. Program(s) on which the course is given: master degree in neurology and psychological medicine
2. Major or minor element of programs: minor
3. Department offering the program: Neurology and psychiatry
4. Department offering the course: Medical Physiology department
5. Academic year /level/: 1st part
6. Date of specification approval: Faculty council No. "317", decree No. "1533" dated 17/12/2018

A. Basic information

Title: Course specification of Medical Physiology in master degree in Neurology and psychiatry

Code: PHY 0518-200

Total hours :

Total	Lecture	Practical	Credit
30	30	-	2

B. Professional information

1. Aim of the course :

to prepare a neurology and psychiatry physician oriented with the Medical Physiology of the central nervous system , autonomic nervous system , muscle and nerve. in addition , graduates should have enough knowledge about the regulation of cerebral blood flow and conditions associated with increased intracranial tension.

2. Intended learning outcomes (ILOs):

a) **knowledge and understanding**

a1. Describe how to explain various neurological and psychiatric terms based on normal CNS and PNS Medical Physiology

b) **Intellectual skills:**

b1. Link between knowledge in CNS Medical Physiology for Professional problems' solving.

c) **Professional and practical skills:**

c1. Master of the basic physiological and modern professional clinical skills in the area of neurology and psychological medicine.

d) **General & transferable skills:**

d1. Use different sources to obtain information and knowledge about Medical Physiology .

3. Contents of the course:

Lectures	No. of hours	Letcher	Practical
I-the Medical Physiology of central nervous system	10	10	
II-the Medical Physiology of the	5	5	

autonomic nervous system			
III-the Medical Physiology of muscle and nerve	5	5	
IV-regulation of cerebral blood flow	5	5	
V-intracranial tension	5	5	
Total	30	30	
Credit	2	2	

4. Teaching and Learning Methods:

- 4.1- Lectures
- 4.2- Practical lessons
- 4.3- Assignment

5. Student Assessment Methods:

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.2-Written Exam: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
5.3-Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills
5.4 assignment	-General transferable skills, intellectual skills

Assessment Schedule:

Assessment 1: Final written exam	week: 24
Assessment 2: Structured Oral Exam	week: 24

Weighting of Assessments

Final- written Examination	50%
Structured Oral Exam	50%
Total	100%

Formative only assessments: attendance and absenteeism

Formative only assessment: simple research assignment, attendance and absenteeism

6. List of references:

1) Essential books:

- Guyton and Hall Textbook of Medical Physiology, John E. Hall, 13th edition, Elsevier Health Sciences, 2015.
- 6.2- Recommended Books
- Ganong's Review of Medical Physiology, 25th Edition, McGraw Hill Professional, 2015.

3) Periodicals, Web Sites:

1. www.ncbi.nlm.nih.gov
2. www.physoc.org
3. <http://www.freemedicaljournals.com>

7. Facilities Required for Teaching and Learning

1-Adequate infrastructure:

including teaching places (teaching class, teaching halls,), comfortable desks, good source of aeration, bathrooms, and good illumination, and safety & security tools.

2- Teaching tools:

including screens, computers including CD (RW), data shows, projectors, flip charts, white boards, video player, digital video camera, scanner, copier, color and laser printers.

Course Coordinator: Dr. Hoda Mostafa

Head of Department: Dr: Hoda Mostafa

Date: 18/12/2011, **Revised:**1/9/2012, **Revised:**1/12/2013, **Revised:**1/12/2018

Course specification of Clinical Pharmacology in master degree in Neurology and psychiatry

Sohag University

Faculty of Medicine

1. Program(s) on which the course is given: master degree in Neurology and psychiatry
2. Major or minor element of programs: minor
3. Department offering the program: Neurology and psychiatry
4. Department offering the course: Clinical Pharmacology department
5. Academic year /level/: 1st part
6. Date of specification approval: Faculty council No. "317", decree No. "1533" dated 17/12/2018

A. Basic information

Title: Course specification of Clinical Pharmacology in master degree in Neurology and psychiatry

Code: PHA 0518-200

Total hours :

Total	Lecture	Practical	Credit
30	30	-	2

B. Professional information

1. Aim of the course :

to prepare a neurology and psychiatry physician oriented with the different drugs acting on central nervous system , autonomic nervous system , muscle and nerve.

in addition , graduates should have enough knowledge about possible side effects of these drugs and manifestation of their toxicity

2. Intended learning outcomes (ILOs):

a) Knowledge and understanding

- a1. Mention therapeutic options in various neurological and psychiatric diseases based on CNS pharmacology

b) Intellectual skills

- b1. Assess risk of different drugs used in the field of neurology and psychological medicine

c) Professional and practical skills

- c1. Master of the basic pharmacological and modern professional clinical skills in the area of neurology and psychological medicine.

d) General and Transferable skills:

- d2. Use different sources to obtain information and knowledge pharmacology.

3. Contents of the course:

Lectures	No. of hours	Letcher	Practical
Pharmacokinetics	2	2	
Pharmacodynamics	2	2	
Adrenergic Drugs	2	2	
Cholinergic Drugs	2	2	
Sedative Hypnotic Drugs	2	2	
Opioid Analgesics	2	2	
Antipsychotic Drugs	2	2	
Antidepressant Drugs	3	3	
AntiParkinson's Disease Drugs	3	3	
AntiSeizure Agents	2	2	
Serotonin Pharmacology	2	2	
Ergot Alkaloid Pharmacology	2	2	
Management of Coagulation Disorders	4	4	
Total	30	30	
Credit	2	2	

4. Teaching and Learning Methods:

- 4.1- Lectures
- 4.2- Practical lessons
- 4.3- Assignment

5. Student Assessment Methods:

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.2-Written Exam: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
5.3-Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills
5.4 assignment	-General transferable skills, intellectual skills

Assessment Schedule:

Assessment 1: Final written exam	week: 24
Assessment 2: Structured Oral Exam	week: 24

Weighting of Assessments

Final- written Examination	50%
Structured Oral Exam	50%
Total	100%

Formative only assessments: attendance and absenteeism

Formative only assessment: simple research assignment, attendance and absenteeism

6. List of references:

6.1- Essential Books (Text Books)

Goodman and Gilman (2016) Manual of Clinical Pharmacology and therapeutics. Mc Graw Hill, Katzung (2018),

6.2- Recommended Books

Clinical Pharmacology book, Assiut university.

6.3- Periodicals, Web Sites, etc

- 1- American Journal of Pharmacology
- 2- British journals of pharmacology.
- 3- WWW.Google.COM
- 4- WWW.yahoo.com.
- 5- www.sciencedirect.com.

7. Facilities Required for Teaching and Learning

1-Adequate infrastructure:

including teaching places (teaching class, teaching halls,), comfortable desks, good source of aeration, bathrooms, and good illumination, and safety & security tools.

2- Teaching tools:

including screens, computers including CD (RW), data shows, projectors, flip charts, white boards, video player, digital video camera, scanner, copier, color and laser printers.

Course Coordinator: Dr. Hala Ibrahim

Head of Department: Dr. Sanaa Abd El-Aal

Date: 18/12/2011, Revised:1/9/2012, Revised:1/12/2013, RevisedP:1/12/2018

Course specification of Pathology in master Degree in Neurology and psychiatry

Sohag University

Faculty of Medicine

1. Program(s) on which the course is given: master degree in Neurology and psychiatry
2. Major or minor element of programs: minor
3. Department offering the program: Neurology and psychiatry
4. Department offering the course: Pathology department
5. Academic year /level/: 1st part
6. Date of specification approval: Faculty council No. "317", decree No. "1533" dated 17/12/2018

A. Basic Information

Title: Course specification of Pathology in diploma degree in Neurology and psychiatry

Code PAT0518-200

Title	total	Lecture	Practical	Credit
Pathology	45	15	30	2

B. Professional Information

1. Overall Aims of Course

By the end of the course the post graduate students should be able to have the professional knowledge of the pathology of neurological diseases.

2. Intended Learning Outcomes of Course (ILOs):

a) Knowledge and Understanding:

By the end of this course , students should have adequate knowledge about :

- a1. Mention the common pathological factors explaining the etiology in various neurological and psychiatric disorders.

b) Intellectual Skills:

- b1. Identify and analyze the information in the field of Neurology and Psychological Medicine on pathological bases

c) Practical and Professional Skills:

- c1. Master of the basic pathological and modern professional clinical skills in the area of neurology and psychological medicine.

d) General and Transferable skills:

- d1. Use different sources to obtain information and knowledge about pathology.

3. Course contents:

Topic	Total	Lecture	Practical
1- General Pathology:	5		
1.1. Inflammation & repair.	1	0.3	0.6
1.2. Cell response to injury and aging.	1	0.3	0.6
1.3. Disturbances of circulation.	1	0.3	0.6
1.4. Infectious diseases.	1	0.3	0.6
1.5. General pathology of tumors.	1	0.3	0.6
2- Blood vessels:	4	1.5	2.5
2.1. Vasculitis.	1	0.3	0.6
2.2. Atherosclerosis.	1	0.3	0.6
2.3. Hypertension.	1	0.3	0.6
2.4. Aneurysms.	1	0.3	0.6
3-Endocrine system:	5	2	3
3.1. Diseases of pituitary gland.	1	0.3	0.6
3.2. Diseases of thyroid & parathyroid glands.	1	0.3	0.6
3.3. Diseases of adrenal gland.	1	0.3	0.6
3.4. Diabetes mellitus.	1	0.3	0.6
3.5. Diseases of pineal body.	1	0.3	0.6
4- The musculoskeletal system:	10	2.5	2.5
4.1. Myopathies	6	2	4
4.2. Motor neuron diseases & neuropathies	3	1	2
4.3. Arthritis.	1	0.3	0.6
5- Nervous system:	21	7	14
5.1. Meningitis, encephalitis and brain abscess.	1	0.3	0.6
5.2. Demyelinating diseases	3	1	2
5.3. Degenerative diseases	6	2	4
5.4. Peripheral neuropathy.	3	1	2
5.5. Cerebro-vascular diseases.	6	2	4
5.6. Tumors of the brain and spinal cord.	2	0.6	1.2
Total	40	10	30
Credit	2	1	1

4. Teaching and Learning Methods:

- 4.1- Lectures
- 4.2- Practical lessons
- 4.3- Assignment

5. Student Assessment Methods:

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.2-Written Exam: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
5.3-Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills
5.4 assignments	-General transferable skills, intellectual skills

Assessment Schedule:

Assessment 1: Final written exam	week: 24
Assessment 2: Structured Oral Exam	week: 24

Weighting of Assessments:

Written Examination	50 %
Structured Oral Exam	50%
Other types of assessment	0%
Total	100%

Formative only assessment: simple research assignment, attendance and absenteeism

6. List of References:

6.1- Essential Books (Text Books):

- Muir's text book of pathology, 15th edition, 2014.
- Robbins Pathologic Basis of Diseases, 10th edition, 2015.

6.2- Recommended Books:

- Rosai&Ackerman text book of Pathology, 11th edition,2017
- Sternberg text book of Pathology, 6th edition, 2015.

6.3- Periodicals:

- Journal of Pathology
- Human Pathology
- Modern Pathology
- Histopathology
- American Journal of Pathology.

Web Sites: - <http://www.ncbi.nlm.nih.gov/pubmed/>

- <http://www.uscap.org>
- <http://www.aacr.org>
- <http://www.ascp.org>

7. Facilities Required for Teaching and Learning

1-Adequate infrastructure:

including teaching places (teaching class, teaching halls,), comfortable desks, good source of aeration, bathrooms, and good illumination, and safety & security tools.

2- Teaching tools:

including screens, computers including CD (RW), data shows, projectors, flip charts, white boards, video player, digital video camera, scanner, copier, color and laser printers.

Course Coordinator: Dr. Fatma El Zhraa Salah El Deen

Head of Department: Dr. Afa Al-Nashar

Date: 18/12/2011, Revised:1/9/2012, Revised:1/12/2013, Revised:1/12/2018

Course Specifications of Applied biostatistics (with computer use) and Research Methodology in Master degree of Neurology and psychiatry

Sohag University

Faculty of Medicine

1. Program title : Master degree in Neurology
2. Major/minor element of the program : Minor
3. Department offering the course: Community Medicine and public Health Dep.
4. Department offering the program: Neurology and psychiatry
5. Academic year /level : 1st part
6. Date of specification approval: Faculty council No. "317", decree No. "1533" dated 17/12/2018

A. Basic Information

Title: Master degree in Neurology and psychiatry Biostatistics and Computer use for health services **and Research Methodology**

Code: COM 0518-200

Total Hours:

Title	Lectures	Practical/ surgical	Total	credit
Applied biostatistics and computers & Research methodology	15	30	45	2

B. Professional Information

Applied Biostatistics Module:

1. Overall Aims of Course

- a. To influence the students to adopt an analytical thinking for evidence based medicine.
- b. To use precisely the research methodology in researches and computer programs SPSS, Epi Info and Excel in data analysis.

Research Methodology Module:

1. Overall Aims of Course

The aim of this course is to provide the postgraduate student with the advanced medical knowledge and skills essential for the mastery of practice of specialty and necessary to provide further training and practice in the field of Public health and Community Medicine through providing:

1. Recent scientific knowledge essential for the mastery of practice of Public Health and Community Medicine according to the international standards.

2. Skills necessary for preparing for proper diagnosis and management of community problems, skills for conducting and supervising researches on basic scientific methodology.
3. Ethical principles related to the practice in this specialty.
4. Active participation in community needs assessment and problems identification.
5. Maintenance of learning abilities necessary for continuous medical education.
6. Upgrading research interest and abilities.

2. Intended Learning Outcomes of Courses (ILOs)

Applied Biostatistics Module:

a) Knowledge and understanding:

By the end of the course, the student is expected to be able to:

- a1. Mention different programs of analysis of data and statistical packages
- a2. Define the recent advances of sources of data and methods of collection.
- a3. Summarize data, construct tables and graphs
- a4. Calculate measures of central tendency and measures of dispersion
- a5. Describe the normal curves and its uses
- a6. Illustrate selected tests of significance and the inferences obtained from such tests
- a7. Illustrate selected tests of significance for parametric and non parametric inferences
- a8. Identify factor analysis and discrimination analysis.

b) Intellectual Skills

By the end of the course, the student is expected to be allowed to:

- b1. Mention how to collect and verify data from different sources
- b2. Interpret data to diagnose prevalent problems Neurology and psychiatry

c) Professional and Practical Skills:

By the end of the course, the student is expected to practice the following:

- c1. Perform recent advanced technological methods in collection, analysis and interpretation of data and in management of prevalent problems in Neurology and psychiatry

d) General and Transferable Skills:

By the end of the course, the student is expected to be able to:

- d1. Use appropriate computer program packages.
- d2. Use of different sources for information and knowledge about biostatistics.

Research Methodology Module:

a) Knowledge and understanding:

By the end of the course, the student is expected to be able to:

- a1. Define the recent advances of screening tests pertinent to selected diseases and the at-risk approach in the application of screening tests.

- a2. Explain the usefulness of screening tests, and calculate sensitivity, specificity, and predictive values.
- a3. Describe the study design, uses, and limitations.
- a4. Mention the recent advances of principles, methodologies, tools and ethics of scientific research.
- a5. Explain the strategies and design of researches.
- a6. Describe bias and confounding.
- a7. Describe sampling techniques and list advantages of sampling
- a8. Identify principles of evidence based medicine.

b) Intellectual Skills

By the end of the course, the student is expected to be able to:

- b1. Conduct research studies that adds to knowledge.
- b2. Formulate scientific papers in the area of public health and community medicine
- b3. Innovate and create researches to find solutions to prevalent community health problems
- b4. Criticize researches related to public health and community medicine

c) Professional and Practical Skills:

By the end of the course, the student is expected to be able to:

- c1. Enumerate the basic and modern professional skills in conducting researches in the area of public health and community medicine.
- c2. Design new methods, tools and ways of conducting researches. .

d) General and Transferable Skills:

By the end of the course, the student is expected to be able to:

- d1. Use of different sources for information and knowledge to serve research.
- d2. Work coherently and successfully as a part of a team and team's leadership in conducting researches and field studies.

3. Contents

Topic	No. of hours	Lecture	Tutorial/ Practical
Applied Biostatistics Module:			
Recent advances in collection, analysis and interpretation of data	3	1	2
-Details of Tests of significance: Proportion test	3	1	2
-Chi-square test	1.5	.5	1
-Student T test	1.5	.5	1
-Paired T test	1.5	.5	1
-Correlation	1.5	.5	1
-Regression	2	1	1
-ANOVA test	3	1	2
-Discrimination analysis	3	1	2
-Factor analysis	3	1	2
-Parametric and non parametric tests	4.5	.5	4

Research Methodology Module:			
Details of epidemiological studies (case control, cohort and cross sectional)	3	1	2
Clinical trials, Quasi experimental study	3	1	2
Bias and errors	2	1	1
Setting a hypothesis	1.5	.5	1
Recent advances in screening	1.5	.5	1
- Evidence – based Medicine: Concept and examples Applicability Scientific writing: A protocol A curriculum	3	1	2
Setting an objective - Critical thinking	2	1	1
Formulation of papers	1.5	.5	1
Total hours	45	15	30
Total Credit hours	2	1	1

4. Teaching and Learning Methods

- 4.1- Lectures
- 4.2- Practical sessions
- 4.3- Computer search assignments
- 4.4- Computer application

5. Student Assessment Methods

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.2-Written Exams: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills, - Practical skills, intellectual skills
5.3-Structured Oral Exams	- Knowledge
5.4Computer search assignment	- general transferable skills, intellectual skills

Assessment Schedule

- Assessment 1....Final written exam Week: 24
- Assessment 2.....Final oral exam Week: 24
- Assessment 3 Attendance and absenteeism throughout the course
- Assessment 4 Computer search assignment performance throughout the course

Weighting of Assessments

Final-term written examination	50%
Final oral Examination	50%
Total	100%

Formative only assessments: attendance and absenteeism and Computer search assignments performance.

6. List of References

Applied Biostatistics Module:

6.1- Essential Books (Text Books)

1-Maxy-Rosenau Public health and preventive medicine, 2008.,Robert Wallace, publisher McGraw-Hill Medical; 15 edition.

6.2- Recommended Books

- 1- Dimensions of Community Based projects in Health Care, 2018. Arxer, Steven L., Murphy, John W.; 1st edition.
- 2- Parks Text Book of Preventive & Social Medicine. 2017., K. Park. BanarsidasBhanot Publishers; 23 edition.
- 3- Clinical Epidemiology: The Essentials, 2013, Robert F., Suzanne W. Fletcher, Grant S., publisher Lippincott Williams & Wilkins; 5 edition.

6.3- Periodicals, Web Sites, ...etc

- 1-American Journal of Epidemiology
- 2-British Journal of Epidemiology and Community Health
- 3- WWW. CDC and WHO sites

Research Methodology Module:

6.1- Essential Books (Text Books)

1-Maxy-Rosenau Public health and preventive medicine, 2008.,Robert Wallace, publisher McGraw-Hill Medical; 15 edition.

6.2- Recommended Books

- 1- Dimensions of Community Based projects in Health Care, 2018. Arxer, Steven L., Murphy, John W.; 1st edition.
- 2- Parks Text Book of Preventive & Social Medicine. 2017., K. Park. BanarsidasBhanot Publishers; 23 edition.
- 3- Clinical Epidemiology: The Essentials, 2013, Robert F., Suzanne W. Fletcher, Grant S., publisher Lippincott Williams & Wilkins; 5 edition.

6.3- Periodicals, Web Sites, ...etc

- 1-American Journal of Epidemiology
- 2-British Journal of Epidemiology and Community Health
- 3- WWW. CDC and WHO sites

7. Facilities Required for Teaching and Learning:

Applied Biostatistics Module:

- Adequate conditioned space for staff and assistants.
- Adequate conditioned teaching facilities.
- Audiovisual Aids: Data show, overhead and slide projectors and their requirements.

Research Methodology Module:

- 1-ADEQUATE INFRASTRUCTURE: including teaching places (teaching class, teaching halls, teaching laboratory), comfortable

desks, good source of aeration, bathrooms, good illumination, and safety & security tools.

- 2- TEACHING TOOLS: including screens, computers including cd (rw), data shows, projectors, flip charts, white boards, video player, digital video camera, scanner, copier, color and laser printers.

Course Coordinator: Dr/ Rash Abd El-Hameed

Head of Department: Prof/ Ahmed Fathy Hamed

Date: 18/12/2011, Revised:1/9/2012, Revised:1/12/2013,Revised:1/12/2018

Course specification of Neurology in master degree in Neurology and psychiatry

Sohag University Faculty of medicine

1. Program(s) on which the course is given: master degree in neurology and psychological medicine
2. Major or minor element of programs: major
3. Department offering the program: Neurology and psychiatry
4. Department offering the course: Neurology and psychiatry
5. Academic year /level/: 2nd part
6. Date of specification approval: Faculty council No. "317", decree No. "1533" dated 17/12/2018

A. Basic information:

Code: NEU 0518-200

Title: Neurology,

Module	Lectures	No of hrs	Lecture	Practical	Credit
Neurology	Total	210	60	150	9

B. Professional Information:

1. Course aims:

Upon successful completion of this course, the graduates should be able to professionally and independently analyze and interpret neurological cases and apply the obtained data independently in diagnosing abnormalities in nervous system.

2. Intended Learning Outcome (ILO) of the course:

a) Knowledge and Understanding:

- a1. Describe how to explain various neurological terms to medicals & non-medicals.
- a2. Classify the various neurological disorders
- a3. Mention the common theories and factors explaining the etiology in various neurological disorders.
- a4. Mention therapeutic options in various neurological diseases
- a5. Mention various neurophysiological diagnostic tools and psychometric tests
- a6. Describe the basic diagnostic criteria in neurological and psychiatric disorders.
- a7. List the common differential diagnosis in various neurological disorders.
- a8. Mention the common interventional therapeutic methods in handling neurological emergencies
- a9. Mention the known good & bad prognostic factors in common neurological disorders.
- a10. Describe a.10- Understand Scientific developments in the field of Neurology and Psychological Medicine.
- a11. Describe The mutual influence between professional practice and its impacts on the environment.

- a12. Mention Ethical and legal principles of professional practice in the field of Neurology
- a13. List the principles and fundamentals of quality in professional practice in the field of Neurology
- a14. List the basics and ethics of scientific research

b) Intellectual Skills:

- b1. Interpret data acquired through history taking to reach a provisional diagnosis in neurology
- b2. Select from different diagnostic alternatives the one that help reaching a final diagnosis in neurology problems
- b3. Link between knowledge for Professional problems' solving.
- b4. Conduct research studies that adds to knowledge
- b5. Plan to improve performance in the field of neurology
- b6. Identify neurological problems and find solutions.
- b7. Analyze researches and issues related to the Neurology

c) Practical and Professional Skills:

- c1. Mastery of the basic and modern professional clinical skills in the area of neurology.
- c2. Write and evaluate medical reports
- c3. Evaluate and develop methods and tools existing in the area of neurology
- c4. Perform different neurophysiological methods (e.g NCS ,EMG,EEG and evoked potentials)
- c5. Train junior staff through continuous medical education programs.
- c6. Design new methods, tools and ways of professional practice.

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 himself and identify personal learning needs.
- d4. Assess himself and identify his personal learning needs.
- d5. Use different sources to obtain information and knowledge about neurology.
- d6. Work in a team and team's leadership in a various professional contexts .
- d7. Manage time efficiently.
- d8. learn himself continuously

3. Course contents

Title :	Total	Lectures	Practical
1. Clinical diagnosis	3	1	2
2. Investigation	3	1	2
3. Headache	3	1	2
4. Pediatric neurology	6	2	4
5. Development, degeneration, and regeneration of the central nervous system: neuroimmunology	5	1	4
6. Neuro-ophthalmology	11	3	8
7. Deafness, vertigo, and imbalance	3	1	2
8. Abnormalities of smell and taste	3	1	2
9. Lower cranial nerves and dysphagia	9	3	6
10. Polyneuropathy	13	3	10
11. Focal peripheral neuropathy	4	1	3

12. The motor neuron diseases	6	2	4
13. Muscle diseases	14	4	10
14. Head injury	3	1	2
15. Raised intracranial pressure, cerebral oedema, and hydrocephalus	3	1	2
16. Tumours of the brain and skull	3	1	2
17. Neurocutaneous syndromes	3	1	2
18. Spinal cord disorders	10	2	8
19. Cauda equina, spinal roots, and sphincter control	6	2	4
20. Epilepsy and other paroxysmal disorders in children	12	4	8
21. Seizures, epilepsy, and other episodic disorders in adults	12	4	8
22. Sleep and sleep disorders	3	1	2
23. Coma	3	1	2
24. Neuropsychological disorders, dementia, and behavioural neurology	3	1	2
25. Stroke, transient ischaemic attacks, and intracranial venous thrombosis	17	4	13
26. Vasculitis and collagen vascular disorders affecting the central nervous system	6	2	4
27. Multiple sclerosis and other demyelinating diseases	12	2	10
28. Cancer and the nervous system	3	1	2
29. Tremor, ataxia, and cerebellar disorders	6	2	4
30. Movement disorders	10	2	8
31. Meningitis	13	1	2
32. Encephalitis and other brain infections	6	2	4
33. Complications of systemic infections and immunizations	3	1	2
total	210	60	150
Credit	9	4	5

4. Teaching and Learning Methods

- 4.1- Illustrated lectures
- 4.2- Clinical rounds on patients
- 4.3- Attendance in outpatient's clinic
- 4.4- Case studies in department conference
- 4.5- Interactive presentations (lectures with discussion)
- 4.6-Assignment

5. Student Assessment Methods:

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.2- Log book	- General transferable skills
5.3-Written Exam: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
5.4-Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills
5.5-OSCE	-Practical skills, intellectual skills General transferable skills
5.6 assignment	-General transferable skills, intellectual skills

Assessment Schedule:

Assessment 1: Review	week:12-16
Assessment 2: Review	week:72-76
Assessment 3: log book	week: 80 (Formative exam)
Assessment 4: Final written Exam	week: 96
Assessment 5: Structured Oral Exam	week: 96
Assessment 6: OSCE	week: 96

Weighting of Assessments

Final- written Examination	50%
Structured Oral Examination	30%
OSCE	20%
Total	100%

Formative only assessments: attendance and absenteeism, log book, assignment

6. List of references:

1) Essential books:

- Brain 's Disease of The Nervous System.(12 edition Michael Donaghy 2009)

2) Recommended books:

- Adams & Victor's ,Principle of Clinical Neurology.
- Neurology in clinical practice.
- Clinical Neurology.
- Manual of neurologic therapeutics.
- Merret's Neurology.

3) Periodicals , Web Sites:

- <http://www.neurology.org>
- <http://www.ncbi.nlm.gov>
- <http://www.freemedicaljournals.com>

7. Facilities Required for Teaching and Learning

1-Adequate infrastructure:

including teaching places (teaching class, teaching halls,), comfortable desks, good source of aeration, bathrooms, and good illumination, and safety & security tools.

2- Teaching tools:

including screens, computers including CD (RW), data shows, projectors, flip charts, white boards, video player, digital video camera, scanner, copier, color and laser printers.

Course Coordinator: Dr. / Alaa Sedky

Head of Department: Prof. Gharib Fawi Mohamed

Date: 18/12/2011, Revised:1/9/2012, Revised:1/12/2013, Revised:1/12/2018

Course specification of Psychiatry in master degree in Neurology and psychiatry

Sohag University

Faculty of medicine

1. Program(s) on which the course is given: master degree in neurology and psychological medicine
2. Major or minor element of programs: major
3. Department offering the program: Neurology and psychiatry
4. Department offering the course: Neurology and psychiatry
5. Academic year /level/: 2nd part
6. Date of specification approval: Faculty council No. "317", decree No. "1533" dated 17/12/2018

A. Basic information:

Code: PSY 0518-200

Title: Psychiatry in Neurology and psychiatry

Module	Lectures	No of hrs	Lecture	Practical	Credit
Psychiatry	Total	210	45	150	9

B. Professional Information:

1. Course aims:

Neurology module:

Educational aims for graduate doctors:

Upon successful completion of this course, the graduates should be able to professionally and independently diagnose psychiatric disorders and be aware & can apply various modalities of treatment in various psychiatric disorders & situations, also be a professional in conducting a psychological research & providing a psychiatric consultation.

2. Intended Learning Outcome (ILO) of the course:

a) Knowledge and Understanding:

- a1. Describe how to explain various psychiatric terms to medicals & non-medical.
- a2. Classify the various psychiatric disorders
- a3. Mention the common theories and factors explaining the etiology in various psychiatric disorders.
- a4. Mention therapeutic options in various psychiatric diseases
- a5. Mention various neurophysiological diagnostic tools and psychometric tests
- a6. Describe the basic diagnostic criteria in neurological and psychiatric disorders.
- a7. List the common differential diagnosis in various psychiatric disorders.
- a8. Mention the common interventional therapeutic methods in handling neurological emergencies
- a9. Mention the known good & bad prognostic factors in common neurological and psychiatric disorders.

- a10. List Scientific developments in the field of Psychological Medicine.
- a11. Mention The mutual influence between professional practice and its impacts on the environment.
- a12. Mention Ethical and legal principles of professional practice in the field of Psychological Medicine.
- a13. Enumerate the principles and fundamentals of quality in professional practice in the field of Psychological Medicine.
- a14. List the basics and ethics of scientific research

b) Intellectual Skills

- b1. Interpret data acquired through history taking to reach a provisional diagnosis in psychiatry
- b2. Select from different diagnostic alternatives the one that help reaching a final diagnosis in psychiatric problems
- b3. Link between knowledge for Professional problems' solving.
- b4. Conduct research studies that adds to knowledge
- b5. Plan to improve performance in the field of psychological medicine
- b6. Identify psychiatric problems and find solutions.
- b7. Analyze researches and issues related to Psychological Medicine.

c) Professional and Practical Skills

- c1. Mastery of the basic and modern professional clinical skills in the area of psychiatry
- c2. Write and evaluate medical reports
- c3. Evaluate and develop methods and tools existing in the area psychological medicine.
- c4. Perform different psychometric assessment
- c5. Train junior staff through continuous medical education programs.
- c6. Design new methods, tools and ways of professional practice.

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 himself and identify personal learning needs.
- d4. Assess himself and identify his personal learning needs.
- d5. Use different sources to obtain information and knowledge psychological medicine .
- d6. Work in a team and team's leadership in a various professional contexts.
- d7. Manage time efficiently.
- d8. Learn himself continuously

3. Course contents

Topics	Total	Lectures	Practical
<u>Childhood psychiatry</u>	19	4	15
Mental retardation	3	1	2
Pervasive developmental disorders	3	1	2
Attention deficit hyperactivity disorders	3	1	2
Disruptive behavior disorders	3	1	2
Tic disorders			
<u>Substance related disorders</u>	19	4	15
<u>Cognitive disorders</u>	19	4	15
<u>Schizophrenia and related disorders</u>	48	13	35
Schizophrenia	19	6	10
Schizophreniform disorder	5	2	3
Schizoaffective disorder	5	2	3
Delusional disorder	4	1	3
Brief Psychotic disorder	4	1	3
Shared psychotic disorder	4	1	3
<u>Mood disorders</u>	28	8	20
Depressive disorders	11	4	7
Bipolar disorders (BPD)	12	4	8
<u>Anxiety disorders</u>	28	8	20
Panic disorder	4	2	2
Phobia	4	2	2
Obsessive compulsive disorder	4	2	2
Stress disorders	3	1	2
Generalized anxiety disorder	3	1	2
<u>Adjustment disorders</u>	3	1	2
<u>Somatoform disorders</u>	3	1	2
<u>Factitious disorder</u>	3	1	2
<u>Dissociative disorder</u>	3	1	2
<u>Sexual and gender identity disorders</u>	8	4	4
<u>Eating disorders</u>	2	1	1
<u>Sleep disorders</u>	2	1	1
<u>Other Impulse control disorders</u>	15	5	10
Intermittent explosive disorder	2	1	1
Kleptomania	2	1	1
Pyromania	2	1	1
Pathological gambling	2	1	1
trichotellomania	2	1	1
<u>Personality disorders</u>	6	2	4
<u>Psychiatric Medication related movement disorders</u>	4	2	2
Total	210	60	150
Credit	9	4	5

4. Teaching and Learning Methods

- 4.1- Illustrated lectures
- 4.2- Clinical rounds on patients
- 4.3- Attendance in outpatient's clinic
- 4.4- Case studies in department conference
- 4.5- Interactive presentations (lectures with discussion)
- 4.6-Assignment

5. Student Assessment Methods:

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.2- Log book	- General transferable skills
5.3-Written Exam: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
5.4-Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills
5.5-OSCE	-Practical skills, intellectual skills General transferable skills
5.6 assignment	-General transferable skills, intellectual skills

Assessment Schedule:

Assessment 1: Review	week:12-16
Assessment 2: Review	week:72-76
Assessment 3: log book	week: 80 (Formative exam)
Assessment 4: Final written Exam	week: 96
Assessment 5: Structured Oral Exam	week: 96
Assessment 6: OSCE	week: 96

Weighting of Assessments

Final- written Examination	50%
Structured Oral Examination	30%
OSCE	20%
Total	100%

Formative only assessments: attendance and absenteeism, log book, assignment

6. List of references:

Essential books:

Kaplan and Sadock's of Psychiatry and Sciences Clinical Psychiatry(2007)

Recommended books:

1. Oxford Handbook of Psychiatry
2. Psychiatry: An Oxford Core Text (Oxford Core Texts)

3. Psychiatry PRN: Principles, Reality, Next Steps by Sarah Stringer, Laurence Church, Susan Davison, and Maurice Lipsedge

Periodicals , Web Sites:

1. <http://www.psychiatryonline.org>
2. <http://www.ncbi.nlm.gov.com>
<http://www.freemedicaljournals.com>

7. Facilities Required for Teaching and Learning

1-Adequate infrastructure:

including teaching places (teaching class, teaching halls,), comfortable desks, good source of aeration, bathrooms, and good illumination, and safety & security tools.

2- Teaching tools:

including screens, computers including CD (RW), data shows, projectors, flip charts, white boards, video player, digital video camera, scanner, copier, color and laser printers.

Course Coordinator: Prof. / Hemid Mostafa Azab

Head of Department: Prof. Gharib Fawi Mohamed

Date: 18/12/2011, Revised:1/9/2012, Revised:1/12/2013, Revised:1/12/2018

Course specification of Psychology in master degree in Neurology and psychiatry

Sohag University

Faculty of Medicine

1. Program(s) on which the course is given: master degree in Neurology and psychiatry
2. Major or minor element of programs: minor
3. Department offering the program: Neurology and psychiatry
4. Department offering the course: Neurology and psychiatry department Academic year /level/: 1st part
5. Date of specification approval: Faculty council No. "317", decree No. "1533" dated 17/12/2018

A. Basic information

Title: Course specification of Psychology in master degree in neurology and psychological medicine

Program on which this course is given: MD degree in Neurology and psychiatry

Code: PSY 0518-200

Total hours:

Module	Total	Lecture	Practical	Credit
Psychology	90	30	60	4

B. Professional information

1. **Aim of the course :**

Know different psychological terms

Ideas about psychometry

2. **Intended learning outcomes (ILOs):**

a) **Knowledge and understanding**

By the end of this course , students should have adequate knowledge about :

a1. Describe how to explain various psychiatric terms

b) **Intellectual skills**

b1. Select from different diagnostic psychometric tests

c) **Professional and practical skills:**

c1. Mastery of the basic information in general and psychological medicine and modern professional clinical skills in the area of neurology and related science

d) **General and Transferable skills:**

d1. Use different sources for information and knowledge general and special psychology.

3. Conents:

Lectures	No. of hours	Lecture	Practical
Introduction & historical background	4	2	4
Psychology & medicine	4	2	4
Sensation and Perception	6	3	6
Learning	6	3	6
Memory	6	3	6
Thinking,	6	3	6
Intelligence, and Language	6	3	6
Motivation and Emotion	4	2	4
Frustration & defense mechanisms	4	2	4
aggression	6	3	6
Social Psychology	4	2	4
Physician–Patient Relationship	2	1	2
Professional Ethics and Boundaries	2	1	2
Total	90	30	60
Credit	4	2	2

4. Teaching and Learning Methods

- 4.1- Illustrated lectures
- 4.2- Clinical rounds on patients
- 4.3- Attendance in outpatient’s clinic
- 4.4- Case studies in department conference
- 4.5- Interactive presentations (lectures with discussion)
- 4.6-Assignment

5. Student Assessment Methods:

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.3-Written Exam: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
5.4-Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills
5.6 assignment	-General transferable skills, intellectual skills

Assessment Schedule:

Assessment 1: Final written Exam week: 24

Assessment 2: Structured Oral Exam week: 24

Weighting of Assessments

Final- written Examination	50%
Structured Oral Exam	50%
Total	100%

Formative only assessments: attendance and absenteeism

6. List of References

6.1- Essential Books (Text Books)

- Psychology (8th Edition) by Carole Wade and Carol Tavris

6.2- Recommended Books

- Psychology: The Science of Mind and Behavior by Michael Passer and Ronald Smith
- The Science of Psychology: An Appreciative View by Laura Boynton King

6.3- Periodicals, Web Sites, ... etc

The American Journal of Psychiatry

The British Journal of Psychiatry

Web Sites

1. www.Sciencedirect.com
2. www.pubmed.com
3. www.Freebooks4doctors.com
4. www.medescape.com

7. Facilities Required for Teaching and Learning

1. Adequate infrastructure:

including teaching places (teaching class, teaching halls,), comfortable desks, good source of aeration, bathrooms, and good illumination, and safety & security tools.

2. Teaching tools:

including screens, computers including CD (RW), data shows, projectors, flip charts, white boards, video player, digital video camera, scanner, copier, color and laser printers.

Course Coordinator: Prof. / Hemid Mostafa Azab

Head of Department: Prof/Gharib Fawi Mohamed

Date: 18/12/2011, Revised:1/9/2012, Revised:1/12/2013, Revised:1/12/2018

Course specification of Internal medicine in master degree in Neurology and psychiatry

Sohag University

Faculty of Medicine

1. **Program(s) on which the course is given:** master degree in Neurology and psychiatry
2. **Major or minor element of programs:** minor
3. **Department offering the program:** Neurology and psychiatry
4. **Department offering the course** internal medicine department
5. **Academic year /level/:** 1st part
6. **Date of specification approval:** Faculty council No. "317", decree No. "1533" dated 17/12/2018

A. Basic Information

Title: Course specification of internal medicine in master degree in Neurology and psychiatry

Code: MED 0518-200

Title	Total	Lecture	Practical	Credit
Internal medicine	60	30	30	3

B. Professional Information

1. Overall Aims of Course

By the end of the course of Internal Medicine, the candidate should be able to:

- 1- Deal with common medical conditions on the basis of adequate history taking, physical examination interpretation of relevant supportive investigations and management.
- 2- Deal with acute medical emergencies safely and effectively.
- 3- Identify the indications and logistics of referring patients to higher levels of experience or specialization.
- 4- Perceive and integrate progress in medical technology.

2. Intended Learning Outcomes of Course (ILOs)

a) Knowledge and Understanding:

- a1. List the common differential diagnosis in various neurological and psychiatric disorders and differentiate them from their mimics in internal medicine.

b) Intellectual Skills

- b1. Interpret data acquired through history taking to reach a provisional diagnosis
- b2. Link between knowledge in internal medicine for Professional problems' solving.

c) Professional and Practical Skills

- c1. Master of the basic information in internal medicine and modern professional clinical skills to reach final diagnosis in the area of neurology and psychological medicine.

d) General and Transferable Skills

d1. Use different sources to obtain information and knowledge about internal medicine.

3. Contents

	Topics	No of hrs	Practical
Cardiology			
	Cardiovascular Symptoms and signs	1	1
	Rheumatic fever	1	1
	Infective endocarditis	1	1
	Coronary artery diseases	2	2
	Atherosclerosis-Acute coronary syndromes	1	1
	Systemic Hypertension		
	Arrhythmias: -Sinus tachycardia -sinus bradycardia -AF -VT	1	1
	Heart failure -Systolic Heart Failure -Diastolic Heart Failure	2	2
Principles of endocrinology			
	Disorders of the neurohypophysis "Diabetes Insipidus"	1	1
	Disorders of the thyroid gland Hypothyroidism Hyperthyroidism	1	1
	Diabetes mellitus	2	2
Hematology Teaching			
	Anemias	2	2
	Leukemias and Lymphomas	1	1
	Myeloproliferative disorders	1	
	-Coagulation disorders and Anticoagulants -Thrombophilia	2	2
Nephrology teaching			
	Acute renal failure Chronic renal failure	2	2

Gastroenterology teaching

	Hepatitis	1	1
	Cirrhosis	1	1
	Hepatocellular failure	1	1

Rheumatology teaching

	Systemic lupus erythromatosis	1	1
	Scleroderma	1	1
	Rheumatoid arthritis	1	2
	Systemic vasculitis	1	1

Respiratory disease teaching			
	-COPD	1	6
	Respiratory failure	1	2
Total	60	30	30
Credit	3	2	1

4. Teaching and Learning Methods

- 4.1- Illustrated lectures
- 4.2- Clinical rounds on patients
- 4.3- Attendance in outpatients clinic
- 4.4- Case studies in department conference
- 4.5- Interactive presentations (lectures with discussion)
- 4.6-Assignment

5. Student Assessment Methods:

Method of assessment	The assessed ILOs
5.1- Observation of attendance and absenteeism.	- General transferable skills, intellectual skills
5.2-Written Exam: -Short essay: 40% -structured questions: 25% -MCQs: 20% -Commentary, Problem solving: 15%	- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,
5.3-Structured Oral Exam	- Knowledge, Intellectual skills, General transferable skills
5.4-OSCE	-Practical skills, intellectual skills General transferable skills
5.5 assignment	-General transferable skills, intellectual skills

Assessment schedule:

Assessment	review	Week24
Assessment	final written exam	Week24
Assessment	OSCE	Week28
Assessment	final Structured Oral Exam	Week24

Weighting of Assessments

Final- written Examination	50%
Structured Oral Examination	30%
OSCE	20%
Total	100%

Formative only assessments: attendance and absenteeism

6. List of References

6.1- Essential Books (Text Books)

- 6.1- Essential Books (Text Books)
 - Kumar and Clarke Textbook of Medicine; Parveen Kumar and Richard Clark; Blackwell Science; 9th edition, 2018

-Hutchison's Clinical Methods; Robert Hutchison; Harry Rainy; 24st edition;2018

6.2- Recommended Books

- Goldman-Cecil Textbook of Medicine; 25th edition, 2018.
- Harrison's principles of internal medicine , 20th edition, 2018.

6.3 Periodicals, Web Sites:

- WWW.American Heart Association. Com.
- WWW. American gastroenterology Association.com.
- WWW. Circulation.com.
- WWW. American Rheumatology Association.com.

7. Facilities Required for Teaching and Learning

1-Adequate infrastructure:

including teaching places (teaching class, teaching halls,), comfortable desks, good source of aeration, bathrooms, and good illumination, and safety & security tools.

2- Teaching tools:

including screens, computers including CD (RW), data shows, projectors, flip charts, white boards, video player, digital video camera, scanner, copier, color and laser printers.

Course Coordinator: Dr. Mohamed Mustafa Ahmed Malak.

Head of Department: Prof. Usama Ahmed Arafa.

Date: 18/12/2011, Revised:1/9/2012, Revised:1/12/2013, **Revised: 1/12/2018**