



## إعتماد توصيف مقررات برنامج الدكتوراه فى الأمراض الباطنة

نقر نحن الموقعون على هذا أدناه أن توصيف وثيقة البرنامج التعليمى لدرجة الدكتوراه فى الأمراض الباطنة والمقررات الدراسية المكونة له قد تم وضعها بمعرفة الأقسام المعنية

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عميد الكلية

وكيل الكلية للدراسات العليا



## Peer Revision

Reviewers	University	Date of Revision
- Prof. Dawlat Saleh	Cairo	١٠/١٢/٢٠١١
- Prof. Ahmad K. Mansur	Mansura	٢٨/١١/٢٠١١

# Program Specification of Medical Doctorate Degree of Internal Medicine

Sohag University

Faculty of Medicine

## A. Basic Information:

- ١ Program title: MD degree in Internal Medicine.
- ٢ Program type: Single.
- ٣ Faculty: Faculty of Medicine.
- ٤ Department: Internal Medicine.
- ٥ Coordinator: Lecturer/ Mervat Mohamed Atya.
- ٦ Ass. Coordinator: Ass. Lecturer / Mohamed Hussein Ahmed El-Sayed El-Rashedy.
- ٧ External evaluator: Prof. Yosrea Abd-Elrahman (Prof.of internal medicine, Assiut University).
- ٨ Last date of program specifications approval: Faculty council No. "٢٠٠", decree No. "١٣٧٨" dated ٢٨/١٢/٢٠١٣.

## B. Professional Information:

### ١. Program Aims:

The aim of this program is to provide the postgraduate with medical knowledge and skills essential for the practice of specialty and necessary to gain further training and practice in the field of Internal Medicine.

- ١ Scientific knowledge essential for the practice of internal medicine according to the international standards.
- ٢ Skills necessary for proper diagnosis and management of patients in the field of internal medicine including diagnostic, problem solving and decision making.
- ٣ Ethical principles related to the practice in this specialty.
- ٤ Active participation in community needs assessment and problems solving.
- ٥ Maintenance of learning abilities necessary for continuous medical education.
- ٦ Maintenance of research interest and abilities.

۲. **Attributes of the postgraduate student:**

۳.

۱. Efficient in carrying out the basics and advances in methodologies of scientific research.
۲. The continuous working to add new knowledge in the field of internal medicine.
۳. Applying the analytical course and critical appraisal of the knowledge in his specialty and related fields.
۴. Merging the internal medicine knowledge with the other related knowledge with conclusion and developing the relationships in between them.
۵. Showing a deep awareness with the ongoing problems, theories, and advanced sciences in the specialty of internal medicine.
۶. Determination of the professional problems in the specialty of internal medicine and creating solutions for them.
۷. Efficient in carrying out the professional skills in his specialty.
۸. Using advanced suitable technologies which serves his practice.
۹. Efficient communication and leadership of team work in his specialty.
۱۰. Decision making through the available information.
۱۱. Using the available resources efficiently and working to find new resources.
۱۲. Awareness with his role in the development of the society and preserve environment.
۱۳. Behaving in a way which reflects his credibility, accountability, and responsibility.
۱۴. Keeping continuous self development and transfer his experiences and knowledge to others.

۴. **Intended Learning Outcomes (ILOs):**

a) **Knowledge and Understanding**

By the end of the study of doctoral program in Internal Medicine the graduate should be able to:

۱. Describe the various biochemical, pathological changes, functions and anatomy of body systems.

٢. List indications, pharmaco-kinetics and side effects of commonly used drugs in the field of Internal Medicine.
٣. Explain the common diagnostic and laboratory techniques necessary to establish diagnosis of common illness.
٤. Mention Principles, methodologies, tools and ethics of scientific research.
٥. Mention the principles and fundamentals of ethics and legal aspects of professional practice in the field of Internal Medicine.
٦. enumerate the principles and fundamentals of quality of professional practice in the field of Internal Medicine.
٧. Trace the spectrum of clinical symptomatology related to different body systems.
٨. Appreciate the clinical spectrum of common medical conditions with multisystem affection.
٩. Describe the concept of emergency management of acute medical disorders (acute abdomen, acute cardiac illness, coma,.....).
١٠. Mention the recent advances in biostatistics and computer.
١١. list the principles of evidence based medicine.

**b) Intellectual skills:**

- By the end of the study of doctoral program in internal medicine the Graduate should be able to:
١. Formulate appropriate management plans for individual patients presenting with the most common medical disorders (cardiac, hepatic, GIT, hematological, neurological, .....).
  ٢. Select from different diagnostic alternatives to reach a final diagnosis.
  ٣. Make decisions regarding common clinical situations using appropriate problem solving skills.
  ٤. Interpret X-ray and CT films, blood gas, blood picture, bone marrow, liver and renal function reports covering the most important medical conditions.
  ٥. Demonstrate appropriate professional attitudes and behaviors in different practice situations in cardiology hepatic diabetic,.....).
  ٦. Collect and verify data from different sources
  ٧. Formulate scientific papers in the area of internal medicine
  ٨. Assess risk in professional practices in the field of internal medicine.
  ٩. Plan to improve performance in the field of internal medicine.
  ١٠. Identify medical problems and find solutions.
  ١١. Have the ability to innovate non- traditional solutions to medical problems.
  ١٢. Manage Scientific discussion administration based on scientific evidences and proofs.

- ١٣. Analyze and interpret the results of research using common statistical tests.
- ١٤. Interpret, criticize and make a scientific conclusion(s) from published research studies.
- ١٥. Conduct research studies, that add to knowledge

**c) Professional and Practical Skills:**

By the end of the study of doctoral program in internal medicine the Graduate should be able to:

- ١. List the basic and modern professional skills in the area of internal medicine.
- ٢. Take a good medical history.
- ٣. Conduct a proper general examination.
- ٤. Identify normal and abnormal physical signs.
- ٥. Conduct proper regional examination of the thorax and abdomen by inspection, palpation, percussion and auscultation to identify: surface anatomy of internal organs, normal physical signs and abnormal physical signs.
- ٦. Write and evaluate medical reports.
- ٧. Identify a clear priority plan in the patient's management.
- ٨. Recognize the indications for consulting higher levels or reference to other disciplines.
- ٩. Develop the clinical skills of eliciting abnormal physical signs in various systems examination.
- ١٠. Interpret the significance and relevance of abnormal physical signs.
- ١١. Identify the appropriate supportive investigations relevant to a particular patient and adequately interpret the results.
- ١٢. Integrate patient's symptomatology, historic data, abnormal physical signs and investigations into a comprehensive differential diagnosis in various body systems affection.
- ١٣. Identify adequate logistics for further patient assessment and management.
- ١٤. Become acquainted with special approach to the diagnosis of common medical conditions related to the specialty.
- ١٥. Get updated information about and demonstrations on modern diagnostic tools within the specialty.
- ١٦. Get acquainted with special therapeutic and interventional techniques related to

the specialty.

١٧. Interprets adequately the results of common laboratory investigations as urine analysis, blood picture, liver and kidney function tests, etc.
١٨. Interprets adequately X-ray, CT and ultrasonic images of common diseases.
١٩. Interprets properly ECG recordings of cardiac conditions.
٢٠. Train junior staff through continuous medical education programs.
٢١. Get acquainted with the methods of patient clinical assessment and monitoring, their significance and inter-relations.
٢٢. Evaluates adequately the patient's acute morbidity score and need for urgent intervention.
٢٣. Collect patients data and writing up referral letters and medical reports.
٢٤. Design new methods, tools, and ways of professional practice.
٢٥. Perform recent advanced technological methods in collection, analysis and interpretation of data of patients

**d) General and Transferable Skills:**

By the end of the study of doctoral program in internal medicine the Graduate should be able to:

١. Gain capabilities and skills of communications with fellows.
٢. Communicate effectively with patients and their families.
٣. Deal perfectly with the computer.
٤. Gain skills of teaching and evaluation.
٥. Assess himself and identify personal learning needs.
٦. Write a case summary and simple essay.
٧. Prepare and present different topics using power point and data show.
٨. Use different sources for information and knowledge.
٩. Gain information through the internet.
١٠. Work in a team work.
١١. Manage Scientific meetings according to the available time.
١٢. Present problematic internal medicine-cases in seminars.

**٥. Academic Standards:**

Sohag faculty of medicine adopted the general National Academic Reference 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. ٦٨٥٤, in its session No. ١٧٧ Dated: ١٨/٥/٢٠٠٩. 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. ٧٥٢٨, in its session No. ١٩١ dated: ١٥/٣/٢٠١٠. The adoption of NARS and the suggested ARS were approved by University council degree No ٥٨٧, in its session No. ٦٠. dated ٢٦-١٢-٢٠١١.

#### ٦. Curriculum Structure and Contents:

- a- Program duration: ٧ semesters (٣,٥ years).
- b- Program structure:
- b.i- Number of hours/week:

Subject	hours / week		
	Lectures	Practical	Clinical
<u>First Part:</u>			
Research Methodology	٢	٢	---
Bio Biostatistics & Computer	٢	٢	---
Primary medical reports	١	٢	---
Physiology	٢	----	---
Clinical Pharmacology	٢	----	---
Clinical biochemistry	٢	----	---
<u>Second Part:</u>			
Internal medicine	٧	٦,٥	٦,٥

%	No	Item	code
١٠٠	٩٠	Compulsory	
٠	٠	Elective	
٠	٠	Optional	
٦,٧	٦	credit hours of basic sciences courses	b.iii
٠	٠	credit hours of courses of social sciences and humanities	b.iv
٥٨,٩	٥٣	credit hours of specialized courses:	b.v
٨,٩	٨	credit hours of other course	b.vi
٨,٩	٨	Practical/Field Training	b.vii
		Program Levels (in credit-hours system):	b.viii
١٦,٧	١٥	Level ١: ١ <sup>st</sup> part	
٥٨,٩	٥٣	Level ٢: ٢ <sup>nd</sup> Part	
١٦,٧	١٥	Level ٣: Thesis	

٧. Program Courses: \* ٦ courses are compulsory

٦,١- Level of program:

Semester...١.....

**First part:  
a. Compulsory**

		Number of hours / week			
		Lect.	Practical.	clinical	
Physiology	٢	٢	---	---	a <sup>١</sup> , b <sup>٤</sup> , c <sup>١٧</sup> , c <sup>١٩</sup> , d <sup>٨</sup>
Clinical pharmacology	٢	٢	---	---	a <sup>٢</sup> , b <sup>١</sup> , c <sup>٧</sup> , c <sup>١٧</sup> , d <sup>٨</sup>
Clinical biochemistry	٢	٢	---	---	a <sup>٣</sup> , b <sup>٨</sup> , c <sup>٣</sup> , d <sup>٥</sup>
Primary Medical Reports	٢	١	٢	---	a <sup>١٠</sup> , b <sup>٥</sup> , b <sup>٩</sup> , c <sup>٦</sup> , c <sup>٨</sup> , c <sup>٢٠</sup> , c <sup>٢٣</sup> , c <sup>٢٥</sup> , d <sup>١</sup> , d <sup>٢</sup> , d <sup>٣</sup> , d <sup>٨</sup> , d <sup>٩</sup> , d <sup>١٠</sup> , d <sup>١١</sup>
Research and Methodolgy	٣	٢	٢		a <sup>٤</sup> , a <sup>١١</sup> , b <sup>١٢</sup> , b <sup>١٣</sup> , b <sup>١٤</sup> , b <sup>١٥</sup> , c <sup>١٥</sup> , c <sup>٢٤</sup> , d <sup>٣</sup> , d <sup>٧</sup> , d <sup>٨</sup> , d <sup>٩</sup>
Biostatistics and Computer	٣	٢	٢		a <sup>٦</sup> , b <sup>٧</sup> , b <sup>١٤</sup> , c <sup>٢٣</sup> , d <sup>٣</sup> , d <sup>٧</sup> , d <sup>٨</sup> , d <sup>٩</sup>

**Second part:**

Internal Medicine	٥٣	٧	٦,٥	٦,٥	a <sup>٣</sup> , a <sup>٥</sup> , a <sup>٦</sup> , a <sup>٧</sup> , a <sup>٨</sup> , a <sup>٩</sup> , b <sup>١</sup> , b <sup>٢</sup> , b <sup>٣</sup> , b <sup>٤</sup> , b <sup>٥</sup> , b <sup>٦</sup> , b <sup>٨</sup> , b <sup>١٠</sup> , b <sup>١١</sup> , c <sup>١</sup> , c <sup>٢</sup> , c <sup>٣</sup> , c <sup>٤</sup> , c <sup>٥</sup> , c <sup>٧</sup> , c <sup>٩</sup> , c <sup>١٠</sup> , c <sup>١١</sup> , c <sup>١٢</sup> , c <sup>١٣</sup> , c <sup>١٤</sup> , c <sup>١٦</sup> , c <sup>١٧</sup> , c <sup>١٨</sup> , c <sup>١٩</sup> , c <sup>٢١</sup> , c <sup>٢٢</sup> , d <sup>٢</sup> , d <sup>١٢</sup>
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**٨. Program Admission Requirements**

**I- General Requirements.**

- ١ Candidate should have either MBBch degree from any Egyptian Faculty of Medicine or Equivalent Degree from Medical Schools abroad approved by the ministry of high Education.
- ٢ Candidate should know how to speak & write English well
- ٣ Candidate should have computer skills.
- ٤ Follow postgraduate bylaw Regulatory rules of Sohag Faculty of Medicine approved by the ministerial decree No. (٤٤), dated ٦/١/٢٠١٠.

**II- Specific Requirements**

- ١ Master degree in Internal Medicine with at least "Good Rank".

**٩. Regulations for Progression and Program Completion**

Duration of program is ٩٠ credit hours ( $\geq ٧$  semesters  $\geq ٣,٥$  years), starting from registration till acceptance of the thesis; divided to:

**First Part: (١٥ Credit hours  $\geq ١$  months  $\geq ١$  semester):**

- ١ Program-related basic science, Research Methodology, Ethics & medical reports, Biostatistics and computer.
- ٢ At least six months after registration should pass before the student can ask for

- examination in the 1<sup>st</sup> part.
- ٣ Two sets of exams: 1<sup>st</sup> in October — ٢<sup>nd</sup> in April after fulfillment of the credit hours.
  - ٤ At least ٦٠% of the written exam and ٦٠% of the total oral and practical/clinical is needed to pass in each course.
  - ٥ For the student to pass the first part exam, a score of at least ٦٠% (Level D) in each course is needed.
  - ٦ Those who fail in one course need to re-exam it only.
  - ٧ GPA of  $\geq 1,٣$  is needed to pass this level (semester).

**Second Part: (٥٠-٦٠ Credit hours  $\geq ٢٤$  months= ٤ semesters):**

- ١ Program related specialized science of Internal Medicine courses. At least ٢٤ months after passing the 1<sup>st</sup> part should pass before the student can ask for examination in the ٢<sup>nd</sup> part.
- Fulfillment of the requirements in each course as described in the template and registered in the log book ( $\wedge$  Credit hours; with obtaining  $\geq ٧٥\%$  of its mark) is a prerequisite for candidates to be assessed and undertake part ١ and part ٢ examinations; the credit hours of the logbook are calculated as following:
  - Each Cr. Hr.= ٦٠ working Hrs.
  - Logbook=  $\wedge$  Cr. Hr. X ٦٠ working Hrs = ٤٨٠ Working Hrs.
  - Collection of working Hrs. is as following:

Activity		Hrs
Grand rounds	اجتماع علمى موسع	٦
Training courses	دورات تدريبية	١٢/ day
Conference attendance	حضور مؤتمرات علمية	١٢/day
	داخلي خارجة	١٨/day
Thesis discussion	حضور مناقشات رسائل	٦
Workshops	حضور ورش عمل	١٢/day
Journal club	ندوة الدوريات الحديثة	٦
Seminars	لقاء علمى موسع	٦
Morbidity and Mortality conference	ندوة تحليل المخاطر المرضية أو الوفاة	٦
Self education program	برنامج التعليم الذاتى	٦

- ١ Two sets of exams: 1<sup>st</sup> in October - ٢<sup>nd</sup> in April.
- ٢ At least ٦٠% of the written exam is needed to be admitted to the oral and practical exams.
- ٣ ٤ times of oral and practical exams are allowed before the student has to re-attend the written exam.

**Third Part (Thesis) (1<sup>o</sup> Credit hours = 24-48 months=4-6 semester):**

- Documentation of the subject should not be delayed for > 1,0 years after registration.
- Could start after registration and should be completed, defended and accepted after passing the 2<sup>nd</sup> part final examination, after passing of at least 24 months after documentation of the subject of the thesis and after publishing of at least one paper from the thesis in a specialized peer-reviewed journal.
- Accepting the thesis is enough to pass this part.

**10. Methods of student assessments:**

The assessed ILOs	weight	Method of assessment
- General transferable skills, intellectual skills		1-Research assignment
- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills	50%	2-Written Exams: -Short essay: 40% -structured questions: 20% -MCQs: 20% -Commentary, Problem solving: 10%
-Practical skills, intellectual skills, general transferable skills		3-OSCE/ OSPE
- Knowledge, Intellectual skills, General transferable skills		4-Structured Oral Exams

**Assessment schedule:**

**Part I:**

- Biostatistics & Computer: Written Exam (2 hours) + Structured oral Exam+ OSPE
- Research Methodology: Written Exam (2 hours) + structured oral Exam+ OSPE
- Primary medical reports: Written Exam (2 hour) + Structured oral Exam+ OSPE
- Applied Physiology: Written Exam (2 hour) + structured oral Exam.
- Clinical pharmacology: Written Exam (2 hour) + structured oral Exam.
- Biochemistry: Written Exam (2 hour) + structured oral Exam.

**Part II:**

- Internal Medicine and its subsidiaries: Two Written Exams (2 hours for each) + one written exam containing commentary (1,0 hours) + OSCE + Structured oral Exam + OSPE.

**11. Evaluation of Program:**

Evaluator	Tool	Sample
1- Senior students	Questionnaire	32
2- Alumni	Questionnaire	28
3- Stakeholders ( Employers)	Questionnaire	32

ξ-External Evaluator(s) (External Examiner(s))	Report	✓
ο- Other	---	---

# Course Specification of Biostatistics and Computer in MD Degree of Internal Medicine

Sohag University

Faculty of Medicine

١. Program on which this course is given: MD degree in Internal Medicine.
٢. Major or minor element of program: Minor.
٣. Department offering the program: Internal Medicine Department.
٤. Department offering the course: Community Medicine and public Health Department.
٥. Academic year/level: ١st part.
٦. Date of specification approval: Faculty council No. "٢٥٠", decree No. "١٣٧٨" dated ٢٨/١٢/٢٠١٣

## A. Basic Information

**Title:** Course specification of biostatistics and computer in MD Degree in Internal Medicine.

**Code:** COM ٠٥١٣-٣٠٠

**Total hours:**

Title	Lecture	Practical	Total	Credit
Biostatistics and computer	٣٠	٣٠	٦٠	٣

## B. Professional Information

### ١. Overall Aims of Course

- To influence the students to adopt an analytical thinking for evidence based medicine
- To use precisely the research methodology in researches and computer programs

### ٢. Intended Learning Outcomes of Courses (ILOs)

#### a) Knowledge and Understanding:

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

- a١. list different programs of analysis of data and statistical packages
- a٢. Define the recent advances of sources of data and methods of collection.
- a٣. Summarize data, construct tables and graphs
- a٤. Calculate measures of central tendency and measures of dispersion
- a٥. Describe the normal curves and its uses
- a٦. Illustrate selected tests of significance and the inferences obtained from such tests
- a٧. Illustrate selected tests of significance for parametric and non parametric inferences
- a٨. Identify factor analysis and discrimination analysis

#### b) Intellectual Skills

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

١. Describe how to Collect and verify data from different sources
٢. Analyze and interpret the results of research using common statistical tests.

**c) Professional and Practical Skills:**

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

١. Perform recent advanced technological methods in collection, analysis and interpretation of data of patients

**d) General and Transferable Skills:**

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

١. Use appropriate computer program packages.
٢. Use of different sources for information and knowledge about biostatistics.

**٣. Contents:**

Topic	No. of hours	Lecture	Tutorial/ Practical
Recent advances in collection, analysis and interpretation of data	٦	٣	٣
-Details of Tests of significance: Proportion test	٦	٣	٣
Chi-square test	٦	٣	٣
Student T test	٦	٣	٣
Paired T test	٦	٣	٣
-Correlation	٤	٢	٢
-Regression	٦	٣	٣
-ANOVA test	٤	٢	٢
-Discrimination analysis	٦	٣	٣
Factor analysis	٤	٢	٢
- parametric and non parametric tests	٦	٣	٣
Total hours	٦٠	٣٠	٣٠
Total credit hours	٣	٢	١

**٤. Teaching and Learning Methods**

- ٤,١- Lectures
- ٤,٢- Practical sessions
- ٤,٣- Computer search assignments
- ٤,٤- Computer application

**٥. Student Assessment Methods**

The assessed ILOs	Method of assessment
- General transferable skills, intellectual skills	٥,١- Observation of attendance and absenteeism.
- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,	٥,٢- Written Exam: -Short essay: ٤٠% -structured questions: ٢٥% -MCQs: ٢٠% -Commentary, Problem solving: ١٥%

- Intellectual skills, Knowledge, General transferable skills	◦, Ƴ-Structured Oral Exam
-General transferable skills, intellectual skills	◦, ƷComputer search assignment

### Assessment Schedule

Assessment 1.....	Final written exam	Week: Ƴ Ʒ
Assessment Ƴ.....	Final Structured Oral Exam	Week: Ƴ Ʒ
Assessment Ƴ	Attendance and absenteeism throughout the course	
Assessment Ʒ	Computer search assignment performance throughout the course	

### Weighting of Assessments

- . Ƴ% Final-term written examination
- . Ƴ% Final Structured Oral Exam
- 1. 0. Ƴ% Total

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

### 6. List of References

#### (1) Essential Books (Text Books):

1-Maxy-Rosenau Public Health and Preventive Medicine, Prentice - Hall International Inc. Ƴ. 0. 0. Ƴ

#### (Ƴ) Recommended Books:

1. Dimensions of Community Health, Boston Burr Ridge Dubuque(Ƴ. 0. 0. Ƴ)
- Ƴ. Short Textbook of preventive and social Medicine. Prentice-Hall International Inc(Ƴ. 1. 0.)
- Ƴ. Epidemiology in medical practice, ◦<sup>th</sup> edition. Churchill Livingstone. New York, London and Tokyo(Ƴ. 0. 0. Ƴ)

#### (Ƴ) Periodicals, Web Sites, ... etc

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

### Ƴ. Facilities Required for Teaching and Learning:

- 1, 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.

٢. ٢- 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/ Ahmaed Fathy Hammed

**Head of Department:** Prof/ Eman Abd El-Baset Mohammed

**Date:** ١٨/١٢/٢٠١١, **Revised:** ١/٩/٢٠١٢, **Revised:** ١/١٢/٢٠١٣

# Course Specification of Research Methodology in MD degree of Internal Medicine

Sohag University

Faculty of Medicine

١. Program on which this course is given: MD degree in Internal Medicine.
٢. Major or minor element of program: Minor.
٣. Department offering the program: Internal Medicine Department.
٤. Department offering the course: Community Medicine and public Health Department.
٥. Academic year/level: ١<sup>st</sup> part.
٦. Date of specification approval: Faculty council No. "٢٥٠", decree No. "١٣٧٨" dated ٢٨/١٢/٢٠١٣

## A. Basic Information

**Title:** Course Specification of Research Methodology in MD degree in Internal Medicine.

**Code:** COM ٠٥١٣-٣٠٠

**Total hours:**

Lecture	Practical	Total	Credit
٣٠	٣٠	٦٠	٣

## B. Professional Information

### ١. 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

### ٢. Intended Learning Outcomes of Courses (ILOs)

#### a) Knowledge and understanding:

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

- a١. Define the recent advances of screening tests pertinent to selected diseases and the at-risk approach in the application of screening tests.
- a٢. Explain the usefulness of screening tests, and calculate sensitivity, specificity, and predictive values.
- a٣. Describe the study design, uses, and limitations.
- a٤. List the recent advances of principles, methodologies, tools and ethics of scientific research.
- a٥. Explain the strategies and design of researches.
- a٦. Describe bias and confounding.
- a٧. Describe sampling techniques and list advantages of sampling
- a٨. Identify principles of evidence based medicine.

#### b) Intellectual Skills

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

- b١. Conduct research studies, that add to knowledge.
- b٢. Formulate scientific papers in the area of internal medicine
- b٣. Interpret, criticize and make a scientific conclusion(s) from published research

studies.

bξ. Innovate and create researches to find solutions to prevalent internal medicine problems

**c) Professional and Practical Skills:**

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

1. List the basic and modern professional skills in conducting researches in the area of internal medicine.
2. Design new methods, tools, and ways of professional practice.

**d) General and Transferable Skills:**

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

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

**ζ. Contents:**

Topic	No. of hours	Lecture	Tutorial/ Practical
Details of epidemiological studies (case control, cohort and cross sectional )	8	ε	ε
Clinical trials, Quasi experimental study	6	3	3
Bias and errors	6	3	3
Setting a hypothesis	6	3	3
Recent advances in screening	6	3	3
- Evidence – based Medicine:	ε	2	2
Concept and examples	ε	2	2
Applicability	ε	2	2
Scientific writing:	ε	2	2
A protocol			
A curriculum			
Setting an objective	2	1	1
- Critical thinking	2	1	1
Formulation of papers	8	ε	ε
<b>Total</b>	<b>60</b>	<b>30</b>	<b>30</b>
<b>Credit hours</b>	<b>3</b>	<b>2</b>	<b>1</b>

**ξ. Teaching and Learning Methods**

ξ,1- Lectures.

ξ,2- Computer search assignments

**ο. Student Assessment Methods**

The assessed ILOs	Method of assessment
- General transferable skills, intellectual skills	ο,1- Observation of attendance and absenteeism.



**Course Coordinator:** Dr/ Ahmaed Fathy Hammed

**Head of Department:** Prof/ Eman Abd El-Baset Mohammed

**Date:** ١٨/١٢/٢٠١١, **Revised:** ١/٩/٢٠١٢, **Revised:** ١/١٢/٢٠١٣

# Course Specification of Primary Medical Reports in MD Degree of Internal Medicine

Sohag University

Faculty of Medicine

١. Program on which this course is given: MD degree in Internal Medicine.
٢. Major or minor element of program: Minor.
٣. Department offering the program: Internal Medicine Department.
٤. Department offering the course: Forensic Medicine and Clinical Toxicology Department.
٥. Academic year/level: ١st part.
٦. Date of specification approval: Faculty council No. "٢٥٠", decree No. "١٣٧٨" dated ٢٨/١٢/٢٠١٣

## A. Basic Information

**Title:** Course Specification of Primary Medical Reports in MD Degree in Internal Medicine.

**Code:** FOR ٠٥١٣-٣٠٠

**Total hours:**

Title	Lectures	Practical	Tutorial	Total hours
Primary Medical Reports	١٥	٣٠	-	٤٥

## B. Professional Information

### ١. Overall Aims of Course

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

### ٢. Intended Learning Outcomes of Courses (ILOs)

#### a. Knowledge and Understanding:

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

- a١. List Principles, methodologies, tools and ethics of scientific research.
- a٢. Mention the principles and fundamentals of ethics and legal aspects of professional practice in the field of internal medicine.
- a٣. List the principles and fundamentals of quality of professional practice in the field of internal medicine.

#### b. Intellectual Skills:

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

١. Demonstrate appropriate professional attitudes and behaviors in different practice situations in cardiology hepatic diabetic,.....).
٢. Plan to improve performance in the field of internal medicine.

**c. Professional and Practical Skills:**

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

١. Writ and evaluate medical reports.
٢. Recognize the indications for consulting higher levels or reference to other disciplines.
٣. Tran junior staff through continuous medical education programs.
٤. Collect patients data and writing up referral litters and medical reports.
٥. Perform recent advanced technological methods in collection, analysis and interpretation of data of patients

**d. General and Transferable Skills:**

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

١. Describe capabilities and skills of communications with fellows.
٢. Communicate effectively with patients and their families.
٣. Deal perfectly with the computer.
٤. Use different sources for information and knowledge.
٥. Describe information through the internet.
٦. Work in a team work.
٧. Manage Scientific meetings according to the available time.

**٨. Contents:**

Topic	No. of hours	Lecture	practical
Definition of poison, classification of poison and factors that influence toxicity	٥	١,٧٥	٣,٥
Diagnosis & Management of poisoning including: respiratory support, circulatory support and neurological support	٥	١,٧٥	٣,٥
toxicological sampling and permanent infirmity	٥	١,٧٥	٣,٥
How to write a toxicological report & How to write death certificate	٥	١,٥	٣
Obligation of physicians (towards patients, colleagues, community)	٥	١,٥	٣
Consent, and professional secrecy	٥	١,٥	٣
Types of malpractice, and items of medical responsibility	٥	١,٧٥	٣,٥
Medicolegal aspects of organ transplantation, intersex states, euthanasia, assisted reproduction techniques	٥	١,٧٥	٣,٥

Ethical considerations of medical research involving human subjects	0	1,70	3,0
<b>Total hours</b>	<b>40</b>	<b>10</b>	<b>30</b>
<b>Total credit hours</b>	<b>2</b>	<b>1</b>	<b>1</b>

**4. Teaching and Learning Methods:**

ξ, 1- Lectures.

**ο. Student Assessment Methods:**

The assessed ILOs	Method of assessment
- General transferable skills, intellectual skills	ο, 1- Observation of attendance and absenteeism.
- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,	ο, 2- Written Exam: - Short essay: 40% - structured questions: 20% - MCQs: 20% - Commentary, Problem solving: 10%
- Knowledge, Intellectual skills, General transferable skills	ο, 3- Structured Oral Exam

**Assessment Schedule**

- 1- Assessment 1: written examination week 24
- 2- Assessment 2: Structured Oral Exam week 24
- 3- Assessment of attendance & absenteeism throughout the course

**Weighting of Assessments**

00%	Final-term written examination
00%	Structured Oral Exam
100%	Total

Formative only assessment: attendance and absenteeism.

**6. List of References:**

**(1) Essential Books (Text Books):** Ballantyne, B, Marrs, T.C., and Syversent (2000): General & Applied Toxicology. 2nd edition, Macmillan Reference LTS, USA

**(2) Recommended Books:** Veatch, R, M: (1997): Medical ethics. 2nd edition, Jones & Barlett Publishers, Sudbury Massachusetts, USA, 2000

**(3) Periodicals, Web Sites, etc**

**7. Facilities Required for Teaching and Learning:**

^ ADEQUATE INFRASTRUCTURE: including teaching places (teaching class, teaching halls, teaching laboratory), comfortable desks,

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

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

**Course Coordinator:** Dr. Soheir Ali Mohamed

**Head of Department:** Dr. Maha Abdel Hamed Hilal

**Date:** ١٨/١٢/٢٠١١, **Revised:** ١/٩/٢٠١٢, **Revised:** ١/١٢/٢٠١٣

# Course Specification of Medical Physiology in MD Degree of Internal Medicine

Sohag University

Faculty of Medicine

١. Program on which this course is given: MD degree in internal medicine.
٢. Major or minor element of program: Minor.
٣. Department offering the program: Internal medicine department.
٤. Department offering the course: Medical Physiology department.
٥. Academic year/level: ١<sup>st</sup> part.
٦. Date of specification approval: Faculty council No. "٢٥٠", decree No. "١٣٧٨" dated ٢٨/١٢/٢٠١٣

## A. Basic Information

**Title:** Course specification of Medical Physiology in MD Degree in Internal Medicine.

**Code:** PHY ٠٥١٣-٣٠٠

**Total hours:**

Title	Lectures	Practical	Total hours
Medical Physiology	٣٠	-	٣٠

## B. Professional Information

### ١. Aim of the Course

To prepare a internal medicine physician oriented with the physiology of the cardiovascular system including that of haemorrhage & types of shock and proper management also that concerned with the regulation of body temperature and respiratory physiology. in addition , graduates should have enough knowledge about some endocrine glands . And it is very important to know the secretory and motility functions of G.I.T.

### ٢. Intended Learning Outcomes (ILOs):

#### a) **Knowledge and Understanding:**

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

- a١. Describe the various biochemical changes, functions and anatomy of body systems.

#### b) **Intellectual Skills:**

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

- b١. Interpret laboratory abnormalities based on previous knowledge of normal values.

#### c) **Professional and Practical Skills:**

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

١. Interprets adequately the results of common laboratory investigations as urine

analysis, blood picture, liver and kidney function tests, etc.

۲. Interprets properly ECG recordings of cardiac conditions.

**d) General and Transferable Skills:**

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

۱. Use different sources for information and knowledge to know the new in human body functions.

**۲. Contents:**

Topic	Total No. of hours	Lecture	Practical
body fluids, electrolytes, oedema.	۳	۳	
water & electrolyte balance.	۳	۳	
blood groups & transfusion.	۱	۱	
hemorrhage & shock.	۳	۳	
respiratory physiology.	۳	۳	
renal physiology.	۳	۳	
body temperature regulation.	۲	۲	
R.B.Cs, hemoglobin & anaemia.	۳	۳	
G.I.T physiology.	۳	۳	
endocrine physiology.	۳	۳	
physiology of C.N.S.	۳	۳	
Total hours	30	30	-
Credit	2	2	

**۴. Teaching and Learning Methods**

۴, ۱- Lectures

**۵. Student Assessment Methods:**

The assessed ILOs	Method of assessment
- General transferable skills, intellectual skills	۵, ۱- Observation of attendance and absenteeism.
- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,	۵, ۲- Written Exam: -Short essay: ۴۰% -structured questions: ۲۵% -MCQs: ۲۰% -Commentary, Problem solving: ۱۵%
- Knowledge, Intellectual skills, General transferable skills	۵, ۳- Structured Oral Exam

## Assessment Schedule

- 1- Assessment 1: written examination week 24
- 2- Assessment 2: Structured Oral Exam week 24
- 3- Assessment of attendance & absenteeism throughout the course

## Weighting of Assessments

50%	Final-term written examination
50%	Structured Oral Exam
100%	Total

Formative only assessment: simple research assignment, log book, attendance and absenteeism.

## 6. List of References:

**(1) Essential Books (Text Books):** Gyton textbook of physiology 2010.

### **(2) Recommended Books:**

- 1 Gillian Pocock, Christopher D. Richards: Human Physiology the Basis of Medicine. Oxford core texts, 1999-2001.
- 2 Robert M. Berne, Matthew N. Levy. Principles of Physiology. 7th edition, Mosby, 2000.
- 3 Duane E. Haines: Fundamental Neuroscience. 2nd edition, Churchill Livingstone, 2002.
- 4 Michael Field, Carol Pollock, David Harris: The Renal System (basic science and clinical conditions). Churchill Livingstone, 2001.
- 5 Vander, Sherman, Luciano: Human Physiology (the mechanisms of body function), 8th edition, Mcgraw Hill, 2001.
- 6 Berne RM et al (editors): Physiology, 6th ed. Mosby, 2004.
- 7 Boron WF, Boulpaep EL (editors) Medical Physiology. Saunders, 2003.
- 8 McPhee SJ, Lingappa VR, Ganong WF: Pathophysiology of Disease. An Introduction to Clinical Medicine, 4th ed. McGraw-Hill, 2003.
- 9 Alberts B et al: Molecular Biology of the Cell, 4th ed. Garland, 2002.

### **(3) Periodicals, Web sites:**

- 3 American journal of physiology.
- 4 Journal of applied physiology.
- 5 Journal of clinical endocrinology and metabolism.
- 6 Physiological Review.

## 7. Facilities Required for Teaching and Learning

- 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.

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

**Course Coordinator:** Dr. Hoda Mostafa.

**Head of Department:** Dr. Ahmed Mostafa.

**Date:** ١٨/١٢/٢٠١١, **Revised:** ١/٩/٢٠١٢, **Revised:** ١/١٢/٢٠١٣

# Course Specification of Clinical Pharmacology in MD degree of Internal Medicine

Sohag University

Faculty of Medicine

١. Program on which this course is given: MD degree in internal medicine.
٢. Major or minor element of program: Minor.
٣. Department offering the program: Internal Medicine Department.
٤. Department offering the course: Clinical Pharmacology Department.
٥. Academic year/level: ١<sup>st</sup> part.
٦. Date of specification approval: Faculty council No. "٢٥٠", decree No. "١٣٧٨" dated ٢٨/١٢/٢٠١٣

## A. Basic information:

**Title:** Course Specification of Clinical Pharmacology in MD Degree in Internal Medicine.

**Code:** PHA ٠٥١٣-٣٠٠

**Total hours:**

Title	Lectures	Practical	Total hours
Clinical Pharmacology	٣٠	-	٣٠

## B. Professional Information

### ١. Aim of the Course:

To prepare a internal medicine physician oriented with the Physiology of the cardiovascular system including that of haemorrhage & types of shock and proper management also that concerned with the regulation of body temperature and respiratory physiology. in addition , graduates should have enough knowledge about some endocrine glands . And it is very important to know the secretory and motility functions of G.I.T.

### ٢. Intended Learning Outcomes (ILOs):

#### a) **Knowledge and Understanding:**

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

١. List indications, pharmaco-kinetics and side effects of commonly used drugs in the field of internal medicine.

#### b) **Intellectual Skills:**

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

- b١. Formulate appropriate drug therapy for medical disorders (cardiac, hepatic, GIT, hematological, neurological, .....).

#### c) **Professional and Practical Skills:**

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

- c١. Identify a clear priority plan in the patient's management.
- c٢. Get acquainted with special therapeutic options related to the specialty.

**d) General and Transferable Skills:**

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

- d\). Use different sources for information and knowledge to know more about new drugs.

**۳. Contents:**

Topic	Total No. of hours	Lecture	Tutorial /Practical
Pharmacodynamics	۳	۳	
Pharmacokinetics	۳	۳	
Autacoids	۳	۳	
Drugs of autonomic nervous system.	۳	۳	
Drugs of the CNS.	۴	۴	
Drugs of the CVS.	۴	۴	
Drugs of the GIT.	۴	۴	
Drugs of the respiratory system.	۳	۳	
Chemotherapy and hormones.	۳	۳	
<b>Total</b>	<b>۳۰</b>	<b>۳۰</b>	
<b>Credit</b>	<b>۲</b>	<b>۲</b>	

**۴. Teaching and Learning Methods:**

۴,۱- Lectures.

**۵. Student Assessment Methods:**

The assessed ILOs	Method of assessment
- General transferable skills, intellectual skills	۵,۱- Observation of attendance and absenteeism.
- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,	۵,۲-Written Exam: -Short essay: ۴۰% -structured questions: ۲۵% -MCQs: ۲۰% -Commentary, Problem solving: ۱۵%
- Knowledge, Intellectual skills, General transferable skills	۵,۳-Structured Oral Exam

**Assessment Schedule**

- ۱- Assessment ۱: written examination week ۲۴  
۲- Assessment ۲: Structured Oral Exam week ۲۴  
۳- Assessment of attendance & absenteeism throughout the course

**Weighting of Assessments**

۵۰%	Final-term written examination
۵۰%	Structured Oral Exam
۱۰۰%	Total

Formative only assessment: simple research assignment, attendance and absenteeism.

**۶. List of References:**

- (۱) **Essential Books (Text Books): Katzung in pharmacology ۲۰۰۹.**

**(٢) Recommended Books: lipnocott in pharmacology ٢٠٠٥ .**

**(٣) Periodicals, Web sites:**

- ١- American Journal of pharmacology.
- ٢- British journals of pharmacology.
- ٣- WWW.Google.COM
- ٤- WWW.yahoo.com.
- ٥- www.sciencedirect.com.

**٧. Facilities Required for Teaching and Learning**

- ١ ADEQUATE INFRASTRUCTURE: including teaching places (teaching class, teaching halls, teaching laboratory), comfortable desks, good source of aeration, bathrooms, good illumination, and safety & security tools.
- ٢ 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/ Faten M. Omeran.

**Head of Department:** Dr/Mahmod Hamdy.

**Date:** ١٨/١٢/٢٠١١, **Revised:** ١/٩/٢٠١٢, **Revised:** ١/١٢/٢٠١٣.

# Course Specification of Internal Medicine in MD Degree of Internal Medicine

Sohag University

Faculty of Medicine

١. Program (s) on which the course is given: MD Degree in internal Medicine
٢. Major or Minor element of program: Major.
٣. Department offering the program: Internal medicine department.
٤. Department offering the course: Internal medicine department.
٥. Academic year/level: ٢<sup>nd</sup> part.
٦. Date of specification approval: Faculty council No. "٢٥٠", decree No. "١٣٧٨" dated ٢٨/١٢/٢٠١٣

## A. Basic Information

**Title:** Course specification of internal medicine in MD degree in internal medicine.

**Code:** MED٠٠١٣-٣٠٠

**Total hours:**

Title	Lectures	Clinical	Practical	Total hours	Credit
Internal medicine	٥٠٠	٢٤٥	٢٤٥	٩٩٠	٥٣

## B. Professional Information

### ١. Overall Aims of Course

By the end of the course of Internal Medicine, the student should be qualified as a specialist, who is able to:

- ١ Manage common medical conditions accurately and independently on the basis of adequate history taking, physical examination and interpretation of relevant supportive investigations.
- ٢ Deal with acute medical emergencies safely and effectively without aid.
- ٣ Perceive and integrate accurately the progress in medical knowledge and technology.
- ٤ Maintain and improve his standards of knowledge and training by clinical self-education.

### ٢, ٢ – Intended Learning Outcomes of Course (ILOs)

#### a) Knowledge and Understanding:

By the end of the course of Internal Medicine, the student should be

١. Explain the common diagnostic and laboratory techniques necessary to establish diagnosis of common illness.
٢. List the principles and fundamentals of quality of professional practice in the field of internal medicine.
٣. Trace the spectrum of clinical symptomatology related to different body systems.

- ξ. a.ξ Appreciate the clinical spectrum of common medical conditions with multisystem affection.
- ο. Describe the concept of emergency management of acute medical disorders (acute abdomen, acute cardiac illness, coma,.....).

**b) Intellectual Skills**

By the end of the course of Internal Medicine, the student should be

- 1. Formulate appropriate management plans for individual patients presenting with the most common medical disorders (cardiac, hepatic, GIT, hematological, neurological, .....).
- 2. Select from different diagnostic alternatives to reach a final diagnosis.
- 3. Make decisions regarding common clinical situations using appropriate problem solving skills.
- ξ. Interpret X-ray and CT films, blood gas, blood picture, bone marrow, liver and renal function reports covering the most important medical conditions.
- ο. Demonstrate appropriate professional attitudes and behaviors in different practice situations in cardiology hepatic diabetic,.....).
- 6. Assess risk in professional practices in the field of internal medicine.
- 7. Identify medical problems and find solutions.
- 8. Have the ability to innovate non- traditional solutions to medical problems.

**c) Professional and Practical Skills**

By the end of the course of Internal Medicine, the student should be

- 1. Describe the basic and modern professional skills in the area of internal medicine.
- 2. Take a good medical history.
- 3. Conduct a proper general examination.
- ξ. Identify normal and abnormal physical signs.
- ο. Conduct proper regional examination of the thorax and abdomen by inspection, palpation, percussion and auscultation to identify: surface anatomy of internal organs, normal physical signs and abnormal physical signs.
- 6. Identify a clear priority plan in the patient's management.
- 7. Develop the clinical skills of eliciting abnormal physical signs in various systems examination.
- 8. Interpret the significance and relevance of abnormal physical signs.
- 9. Identify the appropriate supportive investigations relevant to a particular patient and adequately interpret the results.
- 10. Integrate patient's symptomatology, historic data, abnormal physical signs and investigations into a comprehensive differential diagnosis in various body systems affection.
- 11. Identify adequate logistics for further patient assessment and management.
- 12. Become acquainted with special approach to the diagnosis of common medical conditions related to the specialty.
- 13. Get acquainted with special therapeutic and interventional techniques related to the specialty.
- 14. Interprets adequately the results of common laboratory investigations as urine

- analysis, blood picture, liver and kidney function tests, etc.
١٥. Interprets adequately X-ray, CT and ultrasonic images of common diseases.
  ١٦. Interprets properly ECG recordings of cardiac conditions.
  ١٧. Get acquainted with the methods of patient clinical assessment and monitoring, their significance and inter-relations.
  ١٨. Evaluates adequately the patient's acute morbidity score and need for urgent intervention.
  - ١٩.

**d) General and Transferable Skills**

By the end of the course of Internal Medicine, the student should be

١. d.١ Present problematic internal medicine-cases in seminars.

**٣. Contents**

Topic	Total of Hours	Lecture	clinical	Practical
١. Cardiology				
Rheumatic fever	٢,٥	١	٠,٧٥	٠,٧٥
Infective endocarditis	٢,٥	١	٠,٧٥	٠,٧٥
Valvular diseases	٢,٥	١	٠,٧٥	٠,٧٥
Coronary artery diseases -Acute coronary syndromes -Chronic ischemia				
Systemic Hypertension	٢,٥	٠,٥	٠,٧٥	٠,٧٥
Adult Congenital Heart Diseases				٠,٧٥
				٠,٧٥
Cardiomyopathy:. -dilated cardiomyopathy -Hypertrophic cardiomyopathy -Restrictive cardiomyopathy				
Arrhythmias: -Tachyarrhythmias --Bradyarrhythmias				
Heart failure -Systolic Heart Failure -Diastolic Heart Failure -High cardiac output heart failure				
Pericardial diseases -pericarditis -pericardial effusion and tamponade				

Myocarditis	٢,٥	١	٠,٧٥	٠,٧٥
Cardiovascular manifestations of systemic diseases	٥	١	٢	٢
Pulmonary embolism	٢,٥	١	٠,٧٥	٠,٧٥
Cor pulmonale	٢,٥	١	٠,٧٥	٠,٧٥
Investigations in cardiology: X-Ray, ECG Stress ECG, echocardiography, Coronary angiography				
١-Cardiovascular history taking	٢,٥	١	٠,٧٥	
٢-Cardiac examination (including pulse BP, and Jugular venous pressure comment)	٥	١	٤	
٣-Cardiac valve lesions	٢,٥	١	٠,٧٥	٠,٧٥
٤-Rheumatic heart disease	٢,٥	٠,٥	٠,٧٥	٠,٧٥
٥-Infective endocarditis	٢,٥	١	٠,٧٥	٠,٧٥
٦-Heart failure	٢,٥	١	٠,٧٥	٠,٧٥
٧-Cardiomyopathy	٥	١	٢	٢
٨-Adult congenital heart diseases	٢,٥	١	٠,٧٥	٠,٧٥
٩-Pericardial effusion	٢,٥	١	٠,٧٥	٠,٧٥
١٠-Atrial fibrillation	٢,٥	١	٠,٧٥	٠,٧٥
١١-Interpretation of ECG abnormalities	٢,٥	٠,٥	٠,٧٥	٠,٧٥
١٢. Endocrinology and diabetes			٠,٧٥	٠,٧٥
Disorders of the anterior pituitary and the hypothalamus	٢,٥	١	٠,٧٥	٠,٧٥
Growth axis, Short stature	٢,٥	٠,٥	٠,٧٥	٠,٧٥
Disorders of the neurohypophysis 'Diabetes Insipidus'	٢,٥	١	٠,٧٥	٠,٧٥
Disorders of the thyroid gland Hypothyroidism Hyperthyroidism Thyroid malignancy				
Disorders of the adrenal cortex: -Cushing syndrome -Aldosteronism -Adrenogenital syndrome -Hypoadrenalism				

-Clinical uses of corticosteroids				
Pheochromocytoma	٢,٥	٠,٥	٠,٧٥	٠,٧٥
Disorders of calcium metabolism' Parathyroid gland"	٥	١	٢	٢
Endocrinology of blood pressure control	٢,٥	١	٠,٧٥	٠,٧٥
Diabetes mellitus	٢,٥	١	٠,٧٥	٠,٧٥
Hypoglycemia	٢,٥	٠,٥	٠,٧٥	٠,٧٥
Multiple endocrine system affection	٢,٥	٠,٥	٠,٧٥	٠,٧٥
١-History taking of various endocrinal disorders	٥	١	٤	
٢-Anthropometric measurements, Body mass index	٢,٥	٠,٥	٠,٧٥	٠,٧٥
٣- Obesity, morbid obesity	٢,٥	٠,٥	٠,٧٥	٠,٧٥
٤-Short stature	٢,٥	٠,٥	٠,٧٥	٠,٧٥
٥-Thyrotoxicosis	٢,٥	١	٠,٧٥	٠,٧٥
٦-Myxedema	٢,٥	١	٠,٧٥	٠,٧٥
٧-Cushing syndrome	٢,٥	١	٠,٧٥	٠,٧٥
٨-Acromegally	٢,٥	٠,٥	٠,٧٥	٠,٧٥
٩-Pheochromocytoma	٢,٥	١	٠,٧٥	٠,٧٥
١٠-Diabetic commas	٢,٥	١	٠,٧٥	٠,٧٥
٣. Hematology				
Anemias; -Iron deficiency anemia -Megaloplastic anemia -Hemolytic anemias -Aplastic anemia				
Polycythemia vera, and secondry polycythemia	٢,٥	٠,٥	٠,٧٥	٠,٧٥
Other meloproliferative diseases:  -Myelofibrosis -Essential thrombocytosis -Chronic myeloid leukemia				
Acute leukemias	٢,٥	١	٠,٧٥	٠,٧٥
Lymphomas	٢,٥	١	٠,٧٥	٠,٧٥
Plasma cell disorders	٢,٥	١	٠,٧٥	٠,٧٥
Myelodysplasia	٢,٥	٠,٥	٠,٧٥	٠,٧٥

Disorders of platelets and vessel wall "Thrombocytopenia"				
-Purpura				٠,٧٥
Disorders of coagulation and thrombosis:				
-Hemophilias				
-Thrombophilias				٠,٧٥
١- History taking in hematological disorders	٢,٥	١	٠,٧٥	٠,٧٥
٢- pallor	٢,٥	٠,٥	٠,٧٥	٠,٧٥
٣- Lymphadenopathy and Hepatosplenomegaly	٢,٥	١	٠,٧٥	٠,٧٥
٤- leukemias and lymphomas	٢,٥	١	٠,٧٥	٠,٧٥
٥- Purpura and bleeding tendency	٢,٥	١	٠,٧٥	٠,٧٥
Anticoagulants	٢,٥	٠,٥	٠,٧٥	٠,٧٥
٦. Rheumatology				
Classification and DD of arthropathies	٢,٥	٠,٥	٠,٧٥	٠,٧٥
Rheumatoid arthritis	٢,٥	٠,٥	٠,٧٥	٠,٧٥
Seronegative arthropathies	٢,٥	٠,٥	٠,٧٥	٠,٧٥
Systemic lupus erythematosus	٢,٥	٠,٥	٠,٧٥	٠,٧٥
Systemic sclerosis	٢,٥	٠,٥	٠,٧٥	٠,٧٥
Gout and other crystal deposition arthropathy	٢,٥	٠,٥	٠,٧٥	٠,٧٥
Systemic Vasculitis	٢,٥	٠,٥	٠,٧٥	٠,٧٥
Osteoporosis	٢,٥	٠,٥	٠,٧٥	٠,٧٥
History taking in hematological disorders	٢,٥	٠,٥	٠,٧٥	٠,٧٥
pallor	٢,٥	٠,٥	٠,٧٥	٠,٧٥
Lymphadenopathy and Hepatosplenomegaly	٢,٥	٠,٥	٠,٧٥	٠,٧٥
leukemias and lymphomas	٢,٥	٠,٥	٠,٧٥	٠,٧٥
Purpura and bleeding tendency	٢,٥	٠,٥	٠,٧٥	٠,٧٥
٧. Hepatology			٠,٧٥	٠,٧٥
Esophagus	٢,٥	٠,٥	٠,٧٥	٠,٧٥
Gastroesophageal junction disorders	٢,٥	١	٠,٧٥	٠,٧٥

Peptic ulcer and gastritis	۲,۰	۱	۰,۷۵	۰,۷۵
Diarrhea and dysentery	۲,۰	۱	۰,۷۵	۰,۷۵
Malabsorption syndrome	۲,۰	۱	۰,۷۵	۰,۷۵
Inflammatory bowel disease	۲,۰	۱	۰,۷۵	۰,۷۵
Irritable bowel syndrome	۲,۰	۰,۵	۰,۷۵	۰,۷۵
Gastrointestinal malignancy	۲,۰	۱	۰,۷۵	۰,۷۵
Approach to the patient with hepatic disease	۲,۰	۱	۰,۷۵	۰,۷۵
Evaluation of liver function	۲,۰	۰,۵	۱,۲۵	۰,۷۵
Hyperbilirubinemia	۲,۰	۰,۵	۱,۲۵	۰,۷۵
Jaundice	۲,۰	۱	۰,۷۵	۰,۷۵
Acute hepatitis	۲,۰	۱	۰,۷۵	۰,۷۵
Chronic hepatitis	۲,۰	۱	۰,۷۵	۰,۷۵
Cirrhosis	۲,۰	۱	۰,۷۵	۰,۷۵
Portal hypertension	۲,۰	۱	۰,۷۵	۰,۷۵
Upper GI bleeding	۲,۰	۱	۰,۷۵	۰,۷۵
Hepatocellular failure	۲,۰	۱	۰,۷۵	۰,۷۵
Hepatocellular carcinoma	۲,۰	۱	۰,۷۵	۰,۷۵
Ascites and peritoneal diseases	۲,۰	۱	۰,۷۵	۰,۷۵
Gall bladder disease	۲,۰	۰,۵	۱,۲۵	۰,۷۵
Focal hepatic lesions	۲,۰	۱	۰,۷۵	۰,۷۵
Pancreatitis	۲,۰	۱	۰,۷۵	۰,۷۵
۱- History taking in hematological disorders	۲,۰	۱	۰,۷۵	۰,۷۵
۲- pallor	۲,۰	۰,۵	۰,۷۵	۰,۷۵
۳- Lymphadenopathy and Hepatosplenomegaly	۲,۰	۱	۰,۷۵	۰,۷۵
۴- leukemias and lymphomas	۲,۰	۱	۰,۷۵	۰,۷۵
۵- Purpura and bleeding tendency	۲,۰	۱	۰,۷۵	۰,۷۵
۶. Rheumatology			۰,۷۵	۰,۷۵
Classification and DD of arthropathies	۲,۰	۰,۵	۱,۲۵	۰,۷۵
Rheumatoid arthritis	۲,۰	۱	۰,۷۵	۰,۷۵
Seronegative arthropathies	۲,۰	۰,۵	۱,۲۵	۰,۷۵
Systemic lupus erythematosus	۲,۰	۱	۰,۷۵	۰,۷۵
Systemic sclerosis	۲,۰	۰,۵	۱,۲۵	۰,۷۵

Gout and other crystal deposition arthropathy	۲,۰	۱	۰,۷۰	۰,۷۰
Systemic Vasculitis	۲,۰	۱	۰,۷۰	۰,۷۰
Osteoporosis	۲,۰	۰,۰	۱,۲۰	۰,۷۰
Classification and DD of arthropathies	۲,۰	۱	۰,۷۰	۰,۷۰
Rheumatoid arthritis	۲,۰	۱	۰,۷۰	۰,۷۰
Seronegative arthropathies	۲,۰	۱	۰,۷۰	۰,۷۰
Systemic lupus erythematosus	۲,۰	۰,۰	۱,۲۰	۰,۷۰
- History taking in collagen diseases	۲,۰	۰,۰	۱,۲۰	۰,۷۰
-Joint examination	۲,۰	۱	۰,۷۰	۰,۷۰
- Rheumatoid arthritis	۲,۰	۱	۰,۷۰	۰,۷۰
- Systemic lupus erythematosus	۲,۰	۱	۰,۷۰	۰,۷۰
- Scleroderma	۲,۰	۰,۰	۱,۲۰	۰,۷۰
- Gout	۲,۰	۰,۰	۱,۲۰	۰,۷۰
- Polyarteritis nodosa	۲,۰	۰,۰	۰,۷۰	۰,۷۰
- Reach interpretation of X ray, laboratory markers that occur with autoimmune diseases	۲,۰	۰,۰	--	۲
۷. General medicine			۰,۷۰	۰,۷۰
Nutrition requirement, Malnutrition	۲,۰	۰,۰	۰,۷۰	۰,۷۰
Obesity	۲,۰	۰,۰	۰,۷۰	۰,۷۰
Vitamin deficiency	۲,۰	۰,۰	۰,۷۰	۰,۷۰
Dyslipidemia				
smoking				۰,۷۰
Basic life support and cardiopulmonary resuscitation	۲,۰	۰,۰	۲	-
۸. Respiratory disease	۲,۰	۱	۰,۷۰	۰,۷۰
Asthma	۲,۰	۱	۰,۷۰	۰,۷۰
COPD	۲,۰	۱	۰,۷۰	۰,۷۰
Upper respiratory infections	۲,۰	۱	۰,۷۰	۰,۷۰
Pneumonias	۲,۰	۱	۰,۷۰	۰,۷۰
Suppurative syndrome	۲,۰	۱	۰,۷۰	۰,۷۰
Tuberculosis	۲,۰	۱	۰,۷۰	۰,۷۰

Interstitial disease	٢,٥	١	٠,٧٥	٠,٧٥
Respiratory failure	٢,٥	١	٠,٧٥	٠,٧٥
Malignancy:-bronchial adenoma bronchiogenic carcinoma, Malignant pleural effusion and methocelioma	٢,٥	١	٠,٧٥	٠,٧٥
Lung in systemic disease	٢,٥	١	٠,٧٥	٠,٧٥
Mediastinal syndrome	٢,٥	١	٠,٧٥	٠,٧٥
Arterial blood gases	٢,٥	١	٠,٧٥	٠,٧٥
١-History taking of chest diseases	٢,٥	١	٠,٧٥	٠,٧٥
٢-Chest examination	٢,٥	١	٠,٧٥	٠,٧٥
٣-Cyanosis tremors	٢,٥	٠,٥	٢	--
٤-Bronchial asthma,	٢,٥	١	٠,٧٥	٠,٧٥
٥-Chronic obstructive airway diseases	٢,٥	١	٠,٧٥	٠,٧٥
٦-Pleural effusion	٢,٥	١	٠,٧٥	٠,٧٥
٧-Tuberculosis	٢,٥	١	٠,٧٥	٠,٧٥
٨-Cancer lung	٢,٥	١	٠,٧٥	٠,٧٥
٩-Mediastinal syndrome	٢,٥	١	٠,٧٥	٠,٧٥
١٠ Chest infection	٢,٥	٠,٥	٢	-
١١-Chronic suppurative lung diseases	٢,٥	١	٠,٧٥	٠,٧٥
١٢-Interstitial lung fibrosis	٢,٥	٠,٥	٠,٧٥	٠,٧٥
١٣-Interpretation of X-ray chest	٢,٥	٠,٥	٠,٧٥	٠,٧٥
٩. Neurology				
Cerebral atherosclerosis	٢,٥	١	٠,٧٥	٠,٧٥
Stroke	٢,٥	١	٠,٧٥	٠,٧٥
Hemiplegia	٢,٥	١	٠,٧٥	٠,٧٥
Cervical myelopathy	٢,٥	١	٠,٧٥	٠,٧٥
Cauda equina	٢,٥	٠,٥	٤,٥	--
Extrapyramidal syndromes	٢,٥	١	٠,٧٥	٠,٧٥
Peripheral neuropathy / radiculopathy	٢,٥	١	٠,٧٥	٠,٧٥
Myopathy	٢,٥	١	٠,٧٥	٠,٧٥
Paraplegia	٢,٥	٠,٥	٤,٥	
Facial palsy	٢,٥	١	٠,٧٥	٠,٧٥
Epilepsy	٢,٥	١	٠,٧٥	٠,٧٥
Metabolic encephalopathies	٢,٥	٠,٥	٠,٧٥	١,٢٥

Abnormal movements and cerebellar lesions	۲,۰	۰,۰	۰,۷۰	۱,۲۰
Speech abnormalities	۲,۰	۰,۰	۰,۷۰	۱,۲۰
۱-History taking in neurology	۲,۰	۰,۰	۰,۷۰	۱,۲۰
۲-Neurological examination	۲,۰	۰,۰	۰,۷۰	۱,۲۰
۳-Cerebrovascular stroke	۲,۰	۱	۰,۷۰	۰,۷۰
۴-Hemiplegia	۲,۰	۱	۰,۷۰	۰,۷۰
۵-Paraplegia	۲,۰	۰,۰	۰,۷۰	۱,۲۰
۶-Ataxia	۲,۰	۱	۰,۷۰	۰,۷۰
Parkinsonism	۲,۰	۱	۰,۷۰	۰,۷۰
Chorea	۲,۰	۰,۰	۰,۷۰	۰,۷۰
Cranial nerve palsy	۲,۰	۱	۰,۷۰	۰,۷۰
Myopathy	۲,۰	۱	۰,۷۰	۰,۷۰
Prepheral neuropathy	۲,۰	۰,۰	۰,۷۰	۱,۲۰
۱۰. Tropical medicine				
Fever: definition, pattern, pathogenesis and PUO.....	۲,۰	۰,۰	۰,۷۰	۱,۲۰
Bacterial infections: Streptococcal and staphylococcal infections, Diphtheria and Anthrax	۲,۰	۰,۰	۰,۷۰	۱,۲۰
Clostridial diseases (gas gangrene, tetanus, botulism, pseudomembranous colitis	۲,۰	۰,۰	۰,۷۰	۱,۲۰
Typhoid fever and other salmonella infections	۲,۰	۰,۰	۰,۷۰	۱,۲۰
Brucellosis	۲,۰	۰,۰	۰,۷۰	۱,۲۰
Rickettsial diseases and viral infections of the upper respiratory tract	۲,۰	۰,۰	۰,۷۰	۱,۲۰
Acute and chronic viral hepatitis and their sequelae	۲,۰	۰,۰	۰,۷۰	۱,۲۰
HIV and associated infections	۲,۰	۰,۰	۰,۷۰	۱,۲۰
Rabies	۲,۰	۰,۰	۰,۷۰	۱,۲۰
Shistosomiasis, Fascioliasis, Heterophyes	۲,۰	۰,۰	۰,۷۰	۱,۲۰
Hydatid disease and other cestodes	۲,۰	۰,۰	۰,۷۰	۱,۲۰
Intestinal nematodes	۲,۰	۰,۰	۰,۷۰	۱,۲۰
Tissue nematodes	۲,۰	۰,۰	۰,۷۰	۱,۲۰

Amaebiasis, giardiasis	۲,۰	۰,۰	۰,۷۰	۱,۲۰
Malaria, Toxoplasmosis	۲,۰	۰,۰	۰,۷۰	۱,۲۰
Infectious diarrhea and food poisoning	۲,۰	۰,۰	۰,۷۰	۱,۲۰
Antimicrobial chemotherapy and vaccines	۲,۰	۰,۰	۰,۷۰	۱,۲۰
History taking	۲,۰	۱	۰,۷۰	۰,۷۰
Symptomatology of the GIT	۲,۰	۱	۰,۷۰	۰,۷۰
General examination	۲,۰	۱	۰,۷۰	۰,۷۰
Abdominal examination	۲,۰	۱	۰,۷۰	۰,۷۰
Pallor and its differential diagnosis	۲,۰	۱	۰,۷۰	۰,۷۰
Jaundice and its differential diagnosis	۲,۰	۱	۰,۷۰	۰,۷۰
Ascites and its differential diagnosis	۲,۰	۱	۰,۷۰	۰,۷۰
Hepatocellular failure and hepatic encephalopathy	۲,۰	۱	۰,۷۰	۰,۷۰
Portal hypertension and its causes and management	۲,۰	۱	۰,۷۰	۰,۷۰
Hepatomegaly and splenomegaly and their differential diagnosis	۲,۰	۱	۰,۷۰	۰,۷۰
Emergencies: GIT bleeding, hepatic encephalopathy, fulminant hepatic failure	۲,۰	۱	۰,۷۰	۰,۷۰
۱۱. Nephrology			۰,۷۰	۰,۷۰
Major clinical syndromes in nephrology: Nephrotic syndrome Acute nephritic syndrome				
Glomerulonephritis	۲,۰	۱	۰,۷۰	۰,۷۰
Disturbed renal function: Acute renal failure Chronic renal failure Renal dialysis and Renal transplantation				
Tubulointerstitial disease Interstitial nephritis Inherited tubular disorders				

Drug induced renal disorders				
Urinary tract infections: Acute and chronic pyelonephritis				
Water, electrolyte and acid-base balance	٢,٥	١	٠,٧٥	٠,٧٥
History taking in renal disorders	٢,٥	١	٠,٧٥	٠,٧٥
Nephrotic syndrome and nephritis	٢,٥	١	٠,٧٥	٠,٧٥
Chronic renal failure	٢,٥	١	٠,٧٥	٠,٧٥
Acute renal failure	٢,٥	١	٠,٧٥	٠,٧٥
-Renal dialysis: Indications, technique, manage complications	٢,٥	١	٠,٧٥	٠,٧٥
Total	١٠,٧٥	٥٠٠	٣٠٠	٢٧٥
Credit	٥٣	٣٤	١٠	٩

#### ٤. Teaching and Learning Methods:

- ٤,١- Lectures.
- ٤,٢- Clinical cases
- ٤,٣- Attending and participating in scientific conferences, workshops, and group discussion to acquire the general and transferable skills needed.

#### ٥. Student Assessment Methods

The assessed ILOs	Method of assessment
- General transferable skills, intellectual skills	٥,١- Observation of attendance and absenteeism.
- General transferable skills	٥,٢- Log book
- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,	٥,٣- Written Exam: - Short essay: ٤٠% - structured questions: ٢٥% - MCQs: ٢٠% - Commentary, Problem solving: ١٥%
- Knowledge, Intellectual skills, General transferable skills	٥,٤- Structured Oral Exam
- Practical skills, intellectual skills General transferable skills	٥,٥- OSCE
- General transferable skills, intellectual skills	٥,٦ Computer search assignment

#### Assessments schedule:

Assessment ١.... log book (formative exam)	Week: ٨٠
Assessment ٢.... Final written exam ....	Week: ٩٦
Assessment ٣.... Final OSCE .....	Week: ٩٦
Assessment ٤ ... Final Structured Oral Exam	Week: ٩٦

#### Weighting of Assessments

1	Final Written Examination.	Separate exam.
Passing in the written exam is a condition to attend the following exams:		
1	Structured Oral Exam.	50 %
2	OSCE	50 %
<hr/>		
	Total	100%

6. **List of References:**

**(1) Essential Books (Text Books)**

- Kumar and Clarke Textbook of Medicine; Parveen Kumar and Richard Clark; Blackwell Science; 1<sup>st</sup> edition, 2009
- Hutchison's Clinical Methods; Robert Hutchison; Harry Rainy; 21<sup>st</sup> edition; 2009

**(2) Recommended Books**

- Cecil Textbook of Medicine; McGraw Hill; 23<sup>rd</sup> edition, 2011.
- Harrison's Textbook of Medicine, McGraw Hill, 2008.

**(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, 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, colour and laser printers.

**Course Coordinator:** Lecturer. Mervat Mohamed Ahmed Atya

**Head of Department:** Prof. Hasan Ahmed Hsanen.

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