



إعتماد توصيف مقررات برنامج الدبلوم فى الباطنة العامة

نقر نحن الموقعون على هذا أدناه أن توصيف وثيقة البرنامج التعليمى لدرجة الدبلوم فى الباطنة العامة 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 Salem	Cairo	١٠/١٢/٢٠١١
- Prof. Ahmad K. Mansur	Mansura	٢٨/١١/٢٠١١

Program Specification of Diploma Degree in Internal Medicine

Sohag University

Faculty of Medicine

A. Basic Information:

١. Program title: Diploma Internal Medicine.
٢. Program type: Single.
٣. faculty: Faculty of Medicine
٤. Department: Internal Medicine.
٥. Coordinator: Lecturer/ Amal Khalifa.
٦. Assistant coordinator: Assistant Lecturer / Abeer Ahmed Fawaz.
٧. External evaluator: Prof/ Yosrea Abd-Elrahman (Prof of Internal Medicine, Assiut University).
٨. Last date of program specifications approval: Faculty council No. "٢٥٠", 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 internal medicine 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 abilities necessary for continuous medical education.

٢. Attributes of the student:

٣.

١. Application of the specific knowledge gained during practice of internal medicine.

٢. Identification of professional problems in this specialty and suggest solutions for them.
٣. Mastering professional skills and usage of suitable technologies in practice of Internal medicine.
٤. Ability to efficiently communicate and lead team works throughout organized professional work.
٥. Decision making at the lights of the available information.
٦. Perfect utilization of available resources.
٧. Awareness of his role in community development and maintain good environment.
٨. Reflects the commitment to act with integrity, credibility and professional norms and accountability.
٩. Recognize the need to develop himself and to engage in continuous learning

٤. Intended learning outcomes (ILOs):

a. Knowledge and Understanding

By the end of the study of Diploma program in Internal Medicine the Graduate should be able to:

١. List indications, pharmaco-kinetics and side effects of commonly used drugs in the field of internal medicine.
٢. Describe the basic pathology of common internal medicine diseases.
٣. Mention the principles and fundamentals of ethics and legal aspects of professional practice in the field of internal medicine.
٤. mention the principles and fundamentals of quality of professional practice in the field of internal medicine.
٥. Trace the spectrum of clinical symptomatology related to different body systems.
٦. Appreciate the clinical spectrum of common medical conditions with multisystem affection.
٧. Describe the concept of emergency management of acute medical disorders (acute abdomen, acute cardiac illness, coma,).
٨. Explain the common diagnostic and laboratory techniques necessary to establish diagnosis of common illness.
٩. Mention the mutual influence between professional practice and its impacts on the environment.
١٠. Summarize data, construct tables and graphs.

b. Intellectual Skills:

By the end of the study of diploma 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. Make decisions regarding common clinical situations using appropriate problem

solving skills.

٣. Select from different diagnostic alternatives to reach a final diagnosis.
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. Analyze reading of research and issues related to the internal medicine.
٧. Assess risk in professional practices in the field of internal medicine
٨. Identify medical problems and find solutions.

c. Professional and Practical Skills:

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

١. Apply the 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. Develop the clinical skills of eliciting abnormal physical signs in various systems examination.
٧. Interpret the significance and relevance of abnormal physical signs.
٨. Writ medical reports.
٩. Identify the appropriate treatment to a particular patient.
١٠. Integrate patient's symptomatology, historic data, abnormal physical signs and investigations into a comprehensive differential diagnosis in various body systems affection.

d. General and Transferable Skills:

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

١. Mention capabilities and skills of communications with fellows.
٢. Communicate effectively with patients and their families.
٣. Deal perfectly with the computer.
٤. Assess himself and identify personal learning needs.
٥. Use different sources for information and knowledge.

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 cession 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 cession 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:

٥a- Program duration: ٣ semesters (١,٥ years).

٥b- Program structure:

٥b.i- Number of hours/week:

Subject	hours /week		
	Lectures	Practical	Clinical
First Part:			
Clinical Pathology	٤	٢	---
Clinical Pharmacology	٣	٤	---
Biostatistics	١	٢	
Second Part:			
Internal Medicine	٩	---	١٢

%	No	Item	Code
١٠٠	٤٢	Compulsory	
٠	٠	Elective	
٠	٠	Optional	
١٦,٦	٧	credit hours of basic sciences courses	b.iii
٠	٠	credit hours of courses of social sciences and humanities	b.iv
٥٠	٢١	credit hours of specialized courses:	b.v
٢١,٤	٩	credit hours of other course	b.vi
٢٨,٥	١٢	Program Levels (in credit-hours system): Level ١: ١ st part	b.viii
٧١,٥	٣٠	Level ٢: ٢ nd Part	

٧. Program Courses: ٣ courses are compulsory

٦-١ Level of program:

Semester ١

First part

		Number of hours / week			
		Lect.	Lab.	Clinical	
First part:					
Pharmacology	٧	٣	٤	---	a ^١ , b ^١ , c ^٩ , d ^٥
Clinical Pathology	٦	٤	٢	---	a ^٨ , b ^٤ , c ^٨ , d ^٥

Biostatistics	٣	١	٢	---	a١٠, b٣, c١, d٣
<u>Second part:</u>					
Internal Medicine	٢١	٩	---	١ ٢	a٣, a٤, a٥, a٦, a٧, a٨, a٩, b١, b٢, b٣, b٤, b٥, b٦, b٧, b٨. c١, c٢, c٣, c٤, c٥, c٦, c٧, c٨, c٩, c١٠, d١, d٢, d٥

٨. Program Admission Requirements:

I. General Requirement

- Candidates should have either:
 ١. MBBCh Degree from any Egyptian Faculty of Medicine or
 ٢. Equivalent Degree from Medical Schools abroad approved by the Ministry of Higher Education.
- Candidate should complete the house officer training year.
- Follow postgraduate regulatory rules of Sohag Faculty of Medicine.

٩. Regulations for Progression and Program Completion:

Duration of program is ٣ semesters (١,٥ years), starting from registration till the ٣rd part exam; divided to:

A) First Part: (≥٦ months=١ semester):

- ١ Program-related basic sciences.
- ٢ At least six months after registration should pass before the student can ask for examination in the ١st part.
- ٣ Two sets of exams: ١st in April — ٢nd in October.
- ٤ For the student to pass the first part exam, a score of at least ٦٠% in each curriculum is needed (with at least ٤٠% of the written exam).
 - Those who fail in one curriculum need to re-exam it only.

B) Second Part: (≥٢٤ months=٤ semesters):

- ١ Program related specialized science of internal medicine courses.
- ٢ After passing at least:
 - ١٢ months training in the department of internal medicine.
 - The student should pass the ١st part before asking for examination in the ٢nd part.
- ٣ Two sets of exams: ١st in April — ٢nd in October.
- ٤ For the student to pass the second part exam, a score of at least ٦٠% in each curriculum is needed (with at least ٦٠% of the written exam and ٥٠% of the oral, clinical and practical exam).

١٠. Methods of Student Assessments:

The assessed ILOs	Method of assessment
- General transferable skills, intellectual skills	١-Research assignment

- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills	۲- Written Exam: -Short essay: ۴۰٪ -structured questions: ۲۵٪ -MCQs: ۲۰٪ -Commentary, Problem solving: ۱۵٪
-Practical skills, intellectual skills, general transferable skills	۳-OSCE
- Knowledge, Intellectual skills, General transferable skills	۴-Structured Oral Exam

۱۱. Evaluation of Program:

Evaluator	Tool	Sample
۱- Senior students	Questionnaire	۲۹
۲- Alumni	Questionnaire	۳۱
۳- Stakeholders (Employers)	Questionnaire	۳۱
۴-External Evaluator(s) (External Examiner(s))	Report	۱
۵- Other	---	---

Course Specification of Clinical and Chemical Pathology in Diploma Degree of Internal Medicine

University: Sohag

Faculty of Medicine

١. Program on which this course is given: Diploma 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 and Chemical Pathology 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: Clinical and Chemical Pathology **Code:** MIC.٥١٣-٢٠٠

Code: CLI ٥١٣-١٠٠

Total hours:

Lectures	Practical	Tutorial	Total hours	No. of credit hrs
٦٠	٣٠	-	٩٠	٥

B. Professional Information

١. 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 microbiology 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.

٢. Intended Learning Outcomes of Course (ILOs):

- a) **Knowledge and Understanding:** By
the end of the course the student is expected to:
 - a.١ Explain the common diagnostic and laboratory techniques necessary to establish diagnosis of common illness.
- b) **Intellectual Skills:** By
the end of the course the student is expected to:
 - b.١ Interpret blood gas, blood picture, bone marrow, liver and renal function reports covering the most important medical conditions.
- c) **Professional and Practical Skills:**

By the end of the course the student should have the ability to

c.) Interpretation of various laboratory reports.

d) General and Transferable Skills:

By the end of the course the student should have the ability to:

d.) Use different sources for information and knowledge.

۳. Contents:

	Lectures	Practical
Total hours : (۶۰ hrs)		
Clinical Hematology	۳۰	۱۰
۱. Normal Hb. And its variants	۴	۲
۲. Anemia	۴	۲
۳. Normal haemostasis	۲	۱
۴. Commonest cause of bleeding	۲	۱
۵. Platelet disorders	۴	۲
۶. Coagulation disorders	۴	۲
۷. Anticoagulant therapy monitoring	۲	۱
۸. How to investigate a case of bleeding?	۲	۱
۹. Pre-transfusion compatibility procedure	۲	۱
۱۰. Blood component therapy	۲	۲
۱۱. Hazards of blood transfusion	۲	-
Clinical Chemistry	۱۰	۰
۱. Kidney function	۴	۲
۲. Urine examination	۶	۳
Clinical Microbiology	۱۰	۰
۱) Anti-microbial and sensitivity test	۶	۳
۲) Medically important cases : a. sore throat	۴	۲
Clinical Immunology	۱۰	۰
۱) Types of antigen and antibody reactions	۶	۳
۲) Diagnosis of infectious diseases.	۴	۲
Total	۶۰	۳۰
Credit	۴	۱

۴. Teaching and Learning Methods:

۴,۱- Lectures.

۴,۲- Department practical class and notes.

۴,۳- Practical lessons.

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,	٥,٢-Written Exam: -Short essay: ٤٠% -structured questions: ٢٥% -MCQs: ٢٠% -Commentary, Problem solving: ١٥%
- Knowledge, Intellectual skills, General transferable skills.	٥,٣-Structured Oral Exam

Assessment Schedule:

Assessment ١... Written exam	Week ٢٤
Assessment ٢... Structured Oral Exam	Week ٢٤
Assessment ٣... OSPE	Week ٢٤

Weighting of Assessments:

Written Examination	٥٠ %
Structured Oral Exam	٣٠ %
OSPE	٢٠ %
<hr/>	
Total	١٠٠ %

٦. List of References

٦,١- Essential Books (Text Books):

Essential Haematology of A. H.Hoffbrand.٢٠٠٦

٦,٢- Recommended Books:

Color Atlas of Haematology of Harald Thelml. ٢٠١١

Atlas of Clinical Haematology of Douglas C. Tkachuk.٢٠٠٨.

٦,٣- Periodicals, Web Sites, etc

٧. Facilities Required for Teaching and Learning

٨. 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, color and laser printers.

Course Coordinator: Dr. Lila M. Yousef

Head of Department: Dr. Hasnaa A. Abo elwafa

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

Course Specification of Clinical Pharmacology in Diploma Degree of Internal Medicine

University: Sohag

Faculty of Medicine

١. Program on which this course is given: Diploma 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: ١st part.
٦. Date of specification approval: Faculty council No. "٢٥٠", decree No. "١٣٧٨" dated ٢٨/١٢/٢٠١٣

A. Basic Information

Title: Clinical Pharmacology

Code: PHA ٠٥١٣-١٠٠.

Total hours:

Lectures	Practical	Tutorial	Total hours	No. of credit hrs
٤٥	٦٠	-	١٠٥	٥

B. Professional Information

١. 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 microbiology 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.

٢. Intended Learning Outcomes of Course (ILOs):

a) Knowledge and Understanding:

By the end of the course the student is expected to:

- a.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:

- b.١ 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 should have the ability to
 c.1 Identify the appropriate treatment to a particular patient.

d) General and Transferable Skills:

By

the end of the course the student should have the ability to:

d.1 Use different sources for information and knowledge to know more about new drugs.

3. Contents:

Topic	No. of hours	Lecture	Tutorial/Practical
<u>Medical pharmacology.</u>			
Pharmacodynamics	11	0	6
Pharmacokinetics	11	0	6
Autacoids	11	0	6
Drugs of autonomic nervous system.	12	0	7
Drugs of the CNS.	12	0	7
Drugs of the CVS.	12	0	7
Drugs of the GIT.	12	0	7
Drugs of the respiratory system.	12	0	7
Chemotherapy and hormones.	12	0	7
Total	100	40	60
Credit	0	3	2

4. Teaching and Learning Methods:

4.1- Lectures.

4.2- Department practical class and notes.

4.3- Practical lessons.

5. Student Assessment Methods:

The assessed ILOs	Method of assessment
- General transferable skills, intellectual skills	5.1- Observation of attendance and absenteeism.
- Knowledge	5.2-Written Exam:
- Knowledge	-Short essay: 40%
- Knowledge, intellectual skills	-structured questions: 20%
- Intellectual skills, General transferable skills,	-MCQs: 20%
- Knowledge, Intellectual skills, General transferable skills	-Commentary, Problem solving: 10%
	5.3-Structured Oral Exam

Assessment Schedule:

Assessment 1... Written exam

Week 24.

Assessment 2... Structured Oral Exam

Week 24.

Weighting of Assessments:

Written Examination 00 %

Structured Oral Exam. 00 %

Total 100 %

6. List of References:

٦,١- Essential Books (Text Books): Katzung in pharmacology.

٦,٢- Recommended Books: lipnocott in pharmacology.

٦,٣- 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, colour and laser printers.

Course Coordinator: Dr/ Faten M. Omeran.

Head of Department: Dr/Mahmoud Hamdy

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

Course Specification of Applied biostatistics For Diploma degree of Internal Medicine

University: Sohag

Faculty: Medicine

١. Program on which the course is given: Internal Medicine
٢. Minor or major element of the program: minor.
٣. Department offering the program: Internal Medicine
٤. Department offering the course: Community Medicine and public Health Dep.
٥. Academic year: diploma Degree 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 Applied biostatistics For Diploma of Internal Medicine Department.

Code: COM ٠٥١٣-١٠٠

Title	lecture	practical	Total	credit
applied biostatistics	٣٠	١٥	٤٥	٢

B. Professional Information

١. Overall Aims of Course

To use precisely computer programs and Applied biostatistics

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. Interpret data to diagnose prevalent problems related to the field of anatomy

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 and in management of prevalent problems related to the field of Dermatology, Internal Medicine Department.

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.

٢. Contents

Topic	No. of hours	Lecture	Tutorial/ Practical
Recent advances in collection, analysis and interpretation of data	٣	١	٣
-Details of Tests of significance: Proportion test	٣	١	٣
Chi-square test	٣	١	٣
Student T test	٣,٥	١,٥	٣
Paired T test	٣,٥	١,٥	٣
-Correlation	٤	١,٥	٣
-Regression	٣,٥	١,٥	٣
-ANOVA test	٣,٥	١,٥	٢
-Discrimination analysis	٣,٥	١,٥	٢
Factor analysis	٣,٥	١,٥	٢
- parametric and non parametric tests	٣,٥	١,٥	٢
Total	٤٥	١٥	٣٠
Credit	٢	١	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,	○, Ƴ-Written Exam: -Short essay: ¼% -structured questions: Ƴ○% -MCQs: Ƴ○% -Commentary, Problem solving: ¼%
- Knowledge, Intellectual skills, General transferable skills	○, Ƴ-Structured Oral Exam
-General transferable skills, intellectual skills	○, ¼ Computer search assignment

Assessment Schedule

Assessment ¼.....	Final written exam	Week: Ƴ¼
Assessment Ƴ.....	Final Structured Oral Exam	Week: Ƴ¼
Assessment Ƴ	Attendance and absenteeism throughout the course	
Assessment ¼	Computer search assignment performance throughout the course	

Weighting of Assessments

○. %	Final-term written examination
○. %	Final Structured Oral Exam
¼. %	Total

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

Ƴ. List of References

Ƴ. ¼- **Essential Books (Text Books)**

1. Maxy-Rosenau Public health and preventive medicine, Prentice – Hall International Inc.

Ƴ. Ƴ- **Recommended Books**

1. Dimensions of Community Health, Boston Burr Ridge Dubuque.
2. Short Textbook of preventive and social Medicine. Prentice-Hall International Inc.
3. Epidemiology in medical practice, ○th edition. Churchill Livingstone. New York, London and Tokyo.

Ƴ. Ƴ- **Periodicals, Web Sites; etc**

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

¼. Facilities Required for Teaching and Learning:

- . Adequate infrastructure includes teaching places(teaching class, teaching halls, teaching laboratory)comfortable desks, good source of aerations, bathrooms, good illumination and safety and security tools.
- Ƴ. Teaching tools: includes screens, computers cd(r-w) data shows, projectors, flip charts, white broads, video players, digital video scanners, copier, colourer and laser printers

٧. Computer programs: for designing and evaluating MCQS.

Course Coordinator: Dr/Ahmed 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 Internal Medicine in Diploma Degree of Internal Medicine

University: Sohag.

Faculty of Medicine

- ١ Program on which this course is given: Diploma 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: ٢nd part.
- ٦ Date of specification approval: Faculty council No. "٢٥٠", decree No. "١٢٧٨" dated ٢٨/١٢/٢٠١٢

A. Basic Information

Title: Internal Medicine for postgraduate students.

Code: MED ٠٥١٣-١٠٠.

Total hours:

Lectures	Practical	Tutorial/clinical	Total hours	No. of credit hrs
٢٧٠	-	٣٦٠	٦٣٠	٣٠

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. Intended Learning Outcomes of Course (ILOs)

a) Knowledge and Understanding:

- ١. Mention the principles and fundamentals of ethics and legal aspects of professional practice in the field of internal medicine.
- ٢. Enumerate 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.
- ٤. Appreciate the clinical spectrum of common medical conditions with multisystem affection.
- ٥. Describe the concept of emergency management of acute medical disorders (acute abdomen, acute cardiac illness, coma,.....).
- ٦. Explain the common diagnostic and laboratory techniques necessary to establish diagnosis of common illness.
- ٧. Mention the mutual influence between professional practice and its impacts on the environment.

b) Intellectual Skills

١. Formulate appropriate management plans for individual patients presenting with the most common medical disorders (cardiac, hepatic, GIT, hematological, neurological,
٢. Make decisions regarding common clinical situations using appropriate problem solving skills.
٣. Select from different diagnostic alternatives to reach a final diagnosis.
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. Analyze reading of research and issues related to the internal medicine.
٧. Assess risk in professional practices in the field of internal medicine.
٨. Identify medical problems and find solutions.

c) Professional and Practical Skills

١. Apply the 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. Develop the clinical skills of eliciting abnormal physical signs in various systems examination.
٧. Interpret the significance and relevance of abnormal physical signs.
٨. Writ medical reports.
٩. Identify the appropriate treatment to a particular patient.
١٠. Integrate patient's symptomatology, historic data, abnormal physical signs and investigations into a comprehensive differential diagnosis in various body systems affection.

d) General and Transferable Skills

١. Mention Capabilities and skills of communications with fellows.
٢. Communicate effectively with patients and their families.
٣. Use different sources for information and knowledge.

٣. Contents**I- Lectures:(٢٧٠ hours)**

Topic	Lectures hours	Clinical hours
Cardiology	٣٠	٤٠
Hematology	٣٠	٤٠
Hepatology	٣٠	٤٠
Endocrinology and diabetes	٣٠	٤٠
Nephrology	٣٠	٤٠
Gastroenterology	٣٠	٤٠
Rheumatology	٣٠	٤٠
General medicine	٣٠	٤٠

Respiratory disease	٣٠	٤٠
Total	٢٧٠	٣٦٠
Credit	١٨	١٢

II-Practical: (٣٦٠ hours)

Detailed Contents:

١- Cardiology Teaching

The cardiology curriculum is designed so that at the end of the course the student will be able to:

- ١ Know the principles of cardiovascular anatomy and physiology which are relevant to cardiovascular diseases.
- ٢ Know the basic patho-physiological and structural alteration that occurs in cardiovascular diseases.
- ٣ Know the important causes, presenting features (symptoms, signs and alteration in specific investigations) that may occur in various cardiovascular diseases.
- ٤ Skills: The graduate should be able to:
 - Elicit normal and abnormal cardiovascular signs such as general features, attitude, facies, BP arterial and venous pulse,.....
 - ٦ Elicit normal and abnormal physical signs in chest and abdominal examination that may cause or accompany or result from cardiac disease such as hepatomegaly, splenomegaly, ascites,.....
 - ٧ Can perform successfully basic and advanced life support and cardiac resuscitation (cardiac massage, mouth to mouth breath) either alone or with a team.
 - ٨ He should be able to interpret normal and abnormal cardiac shadows in chest X ray.

He should recognize the normal ECG and diagnose any abnormalities in ECG

Cardiology Teaching (Methodology):

A combination of strategies are used to reach the above mentioned objects, this include lectures, clinical word rounds, practical classes and self teaching.

١-Lectures

Topics	HOURS
Rheumatic fever	٣
Infective endocarditis	٣
Valvular diseases	٣
<u>Coronary artery diseases</u>	٢
-Acute coronary syndromes	
-Chronic ischemia	
Systemic Hypertension	٣
<u>Arrhythmias:</u>	٢
-Tachyarrhythmias	
- Bradyarrhythmias	
<u>Heart failure</u>	٢
-Systolic Heart Failure	
-Diastolic Heart Failure	

-High cardiac output heart failure	
<u>Pericardial diseases</u>	۳
-Pericarditis	
-Pericardial effusion and tamponade	
Pulmonary embolism	۳
Cor pulmonale	۳

B- Practical teaching (cardiology)

Practical Topics: (° hours each)

- ۱-Cardiovascular history taking
- ۲-Cardiac examination (including pulse BP, and Jugular venous pressure comment)
- ۳-Cardiac valve lesions
- ۴-Rheumatic heart disease
- ۵-Infective endocarditis
- ۶-Heart failure
- ۷-Atrial fibrillation
- ۸-Interpretation of ECG abnormalities
- ۹- **Self learning: These include:**
 - Personal or group ward responsibilities including follow up of inpatients in the department.
 - Cardiology outpatient sessions in which the student examine the patients with the lecturer

۲- Endocrinology Teaching:

Terminal Objectives are:

Topics	HOURS
Disorders of the anterior pituitary and the hypothalamus	۳
Growth axis, Short stature	۳
<u>Disorders of the thyroid gland</u>	۳
Hypothyroidism	
Hyperthyroidism	
Thyroid malignancy	
<u>Disorders of the adrenal cortex:</u>	۹
-Cushing syndrome	
-Aldosteronism	
-Adrenogenital syndrome	
-Hypoadrenalism	
-Clinical uses of corticosteroids	
Pheochromocytoma	۳
Endocrinology of blood pressure control	۳
Diabetes mellitus	۳

Hypoglycemia	۳
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- ۱ To know the principles of the physiology of endocrinal system
- ۲ To know the basic pathophysiological and structural alteration changes that occurs in various endocrinal diseases.
- ۳ To know presenting features of endocrinal diseases
- ۴ To be able to elicit skeletal disproportions and to identify body mass index
- ۵ To diagnose various endocrinal emergencies
- ۶ To know the various investigations of endocrinal diseases
- ۷ To interpret endocrinal images such as X-ray, CT and MRI of different endocrinal organs.

Endocrinology Teaching (Methodology)

A combination of strategies is used to reach the above mentioned objectives.

This includes:

A- Lectures

B-Practical Teaching in Endocrinology

Practical Topics: (۴ hours each)

- ۱-History taking of various endocrinal disorders
- ۲-Anthropometric measurements, Body mass index
- ۳- Obesity, morbid obesity
- ۴-Short stature
- ۵-Thyrotoxicosis
- ۶-Myxedema
- ۷-Cushing syndrome
- ۸-Acromegally
- ۹-Pheochromocytoma
- ۱۰-Diabetic commas

۲- Hematology Teaching

Terminal objectives in teaching Hematology are:

- ۱ To review their information about the physiology of blood cells (RBCs, WBCs and platelets) and homeostasis.
- ۲ To review their information about the anatomy of the lymphatic and hematopoietic organs.
- ۳ To know the important causes, presentation and management of various types of anemia.
- ۴ To examine lymph nodes, liver and spleen and to know causes and management of lymphadenopathy, hepatomegaly, and splenomegaly.
- ۵ To know the causes, manifestation and management of bleeding and coagulation disorders.
- ۶ To know causes presentation and management of various hematological malignancies (Leukemia's, lymphomas, plasma cell tumors).
- ۷ To interpret lab investigations as blood picture, bone marrow examination, results of lymph node, spleen biopsy, and tests for coagulation disorders.

- ^ To know recent advances in treatment of various hematological disorders as bone marrow transplantation, immunological treatment,.....

Hematology teaching (Methodology):

A combination of strategies is used to reach the above mentioned objectives. This includes:

A- Lectures

Topics	HOURS
Anemia: -Iron deficiency anemia -Megaloblastic anemia -Hemolytic anemia -Aplastic anemia	o
Polycythemia vera, and secondary polycythemia	o
Other meloproliferative diseases: -Myelofibrosis -Essential thrombocytosis -Chronic myeloid leukemia	o
Acute leukemia	o
Lymphomas	٢, o
Disorders of platelets and vessel wall "Thrombocytopenia" -Purpura	o
Anticoagulants	٢, o

B- Practical Hematology: (^ hours each)

Topics

- ١ -History taking in hematological disorders
- ٢ Pallor
- ٣ Lymphadenopathy and Hepatosplenomegaly
- ٤ Leukemia and lymphomas
- o Purpura and bleeding tendency

٤-Rheumatology teaching

Terminal objectives are:

- ١ To know the basic pathophysiological and structural alteration in common musculoskeletal and connective tissue diseases
- ٢ To do systemic examination (face, skin, eye cardiac, chest abdominal nervous system examination and understanding their relation to common connective tissue diseases
- ٣ To know the important causes, presenting features (symptoms, signs and alteration in specific investigations) that may occur in each of the following conditions:
 - ٤ Rheumatoid arthritis, Systemic lupus erythematosus
 - o Seronegative arthropathies and Gout

٦ Osteoporosis-Systemic sclerosis -Systemic vasculitis

Rheumatology Teaching (Methodology)

A- Lectures

Topics	HOURS
Classification and DD of arthropathies	٥
Rheumatoid arthritis	٥
Systemic lupus erythematosus	٥
Systemic sclerosis	٥
Gout and other crystal deposition arthropathy	٥
Systemic Vasculitis	٥

B- Practical Rheumatology (٥ hours each)

Topics:

- ١ History taking in collagen diseases
- ٢ Joint examination
- ٣ Rheumatoid arthritis
- ٤ Systemic lupus erythematosus
- ٥ Scleroderma
- ٦ Gout
- ٧ Polyarteritis nodosa
- ٨ Reach interpretation of X ray, laboratory markers that occur with autoimmune diseases

٥- Nephrology Teaching

Topics	HOURS
<u>Major clinical syndromes in nephrology:</u> Nephrotic syndrome Acute nephritic syndrome	٦
Glomerulonephritis	٦
<u>Disturbed renal function:</u> Acute renal failure Chronic renal failure Renal dialysis and Renal transplantation	١٢
<u>Urinary tract infections:</u> Acute and chronic pyelonephritis	٦

B-Practical Nephrology: (٨ hours each)

Topics:

- ١ History taking in renal disorders
- ٢ Nephrotic syndrome and nephritis
- ٣ Chronic renal failure
- ٤ Acute renal failure
- ٥ Renal dialysis: Indications, technique, mange complications

7 Gastroenterology and Hepatology Teaching

Terminal objectives in teaching gastroenterology; GIT are:

- 1 -To know the basic physiology of the digestive system (esophagus, stomach, small, large intestine and the pancreas)
- 2 -To know the anatomy and the basic pathophysiological and structural changes that occur in the gastrointestinal tract in various GIT diseases.
- 3 To know the gastrointestinal symptoms such as vomiting, diarrhea, constipation, and how to elicit important findings through abdominal examination, examination of the buccal cavity and PR examination.
- 4 -To know the important causes, presentation and management of the following disorders affecting the gastrointestinal tract:
 - a .Salivary gland disorders
 - b esophageal diseases (GERD, esophagitis, cancer)
 - c Peptic ulcer, gastritis, gastric malignancies.
 - d Acute and chronic GIT bleeding
 - e Malabsorption syndromes, vascular occlusion of the intestinal vessels and malignancies affecting the intestine
 - f Inflammatory bowel diseases
 - g Functional GIT disorders
 - h Causes and management of medical causes of acute abdomen
 - i To acquire the basic knowledge for the following investigations done for GIT diseases as:

- Abdominal sonography	- Barium studies
- Endoscopies	- Abdominal CT
- Motility studies	- ERCP

The Hepatology curriculum is designed so that at the end of the course the student is able to:

- 1 Know the principles of hepatobiliary system anatomy and physiology which are relevant to hepatobiliary diseases.
- 2 Know the basic pathophysiological and structural alteration that occurs in hepatobiliary diseases.
- 3 Know the important causes, presenting features (symptoms, signs and alteration in specific investigations) that may occur in each of the following conditions:
 - 4 Jaundice (classification, causes and management)
 - 5 Portal hypertension, esophageal varices.
 - 6 Ascites including causes rather than portal hypertension
 - 7 Liver cirrhosis (causes, presentation and complications).
 - 8 Liver cell failure (acute and chronic)
 - 9 Hepatomegaly (causes and management)
 - 10 Splenomegaly (including causes and management of huge splenomegaly)
 - 11 Hepatitis (acute and chronic)
 - 12 Liver tumors.
 - 13 Liver diseases in relation to drugs and other medical situations.
 - 14 Different investigations which are performed for liver diseases as biochemical

- tests, abdominal imaging (sonography, CT,.....) endoscopies.
- Liver transplantation

A Lectures

Topics	HOURS
Gastroesophageal junction disorders	۲
Peptic ulcer and gastritis	۲
Diarrhea and dysentery	۲
Malabsorption syndrome	۲
Inflammatory bowel disease	۲
Irritable bowel syndrome	۱
Evaluation of liver function	۱
Jaundice	۱
Acute hepatitis	۱
Chronic hepatitis	۲
Cirrhosis	۲
Portal hypertension	۲
Upper GI bleeding	۲
Hepatocellular failure	۲
Hepatocellular carcinoma	۲
Ascites and peritoneal diseases	۲
Pancreatitis	۲

Practical GIT and Hepatology

B- Practical Respiratory Disease Topics: (4 hours each)

- ၁- History taking of chest diseases
- ၂- Chest examination
- ၃- Cyanosis tremors
- ၄- Bronchial asthma,
- ၅- Chronic obstructive airway diseases
- ၆- Pleural effusion
- ၇- Tuberculosis
- ၈- Cancer lung
- ၉ Mediastinal syndrome
- ၁၀ Chest infections
- ၁၁ Chronic suppurative lung diseases
- ၁၂ Intestinal lung fibrosis
- ၁၃ Interpretation of X-ray chest

၄. Teaching and Learning Methods

- ၄,၁- Illustrated lectures and case studies
- ၄,၂- Clinical rounds on patients.
- ၄,၃- Clinical rounds with guided clinical case-taking
- ၄,၄- Interactive presentations (lectures with discussion)
- ၄,၅- Clinical simulations and emergency drills by manikains and models simulating m

၅. Student Assessment Methods

The assessed ILOs	Method of assessment
- General transferable skills, intellectual skills	၅,၁- Observation of attendance and absenteeism.
- General transferable skills	၅,၂- Log book
- Knowledge - Knowledge - Knowledge, intellectual skills - Intellectual skills, General transferable skills,	၅,၃- Written Exam: -Short essay: ၄၀% -structured questions: ၂၀% -MCQs: ၂၀% -Commentary, Problem solving: ၂၀%
- Knowledge, Intellectual skills, General transferable skills	၅,၄- Structured Oral Exam
-Practical skills, intellectual skills General transferable skills	၅,၅- OSCE

Assessment Schedule:

١ Assessment ١ : written exams	Week ٤٨
٢ Assessment ٢ : OSCE	Week ٤٨
٣ Assessment ٣ : Structured Oral Exam	Week ٤٨

Weighting of Assessments:

Final-term written examination	٥٠%
OSCE and Structured oral examination	٥٠%
Total	١٠٠%

٦. List of References

٦,١- Essential Books (Text Books)

- Kumar and Clarke Textbook of Medicine; Parveen Kumar and Richard Clark; Blackwell Science; ١٤th edition, ٢٠٠٧

-Hutchison's Clinical Methods; Robert Hutchison; Harry Rainy; ٢١st edition; ٢٠٠٢

٦,٢- Recommended Books

- Cecil Textbook of Medicine; McGraw Hill; ١٦th edition, ٢٠٠٤.

- Harrison's Textbook of Medicine, McGraw Hill, ٢٠٠٥.

٦,٣- Periodicals, Web Sites:

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

٧. Facilities Required for Teaching and Learning:

١. ADEQUATE INFRASTRUCTURE: including teaching places (teaching class, teaching halls, teaching laboratory), comfortable desks, and good source of aeration, bathrooms, and 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, co lour and laser

Course Coordinator: Dr.Mervat M. Atia

Head of Department: Prof . Hassan Ahmed Hassanin.

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