



## إعتماد توصيف مقررات برنامج الدبلوم فى الطب الطبيعى والروماتيزم

### والتأهيل

نقر نحن الموقعون على هذا أدناه أن توصيف وثيقة البرنامج التعليمى لدرجة الدبلوم فى الطب الطبيعى والروماتيزم والتأهيل والمقررات الدراسية المكونة له قد تم وضعها بمعرفة الأقسام

م	اسم المقرر	اسم منسق المقرر	التوقيع	اسم رئيس القسم	التوقيع
١.	التشريح التطبيقي	د. / نصار ايوب عبد اللطيف		د. / عصام صلاح كامل	
٢.	الفسبولوجيا التطبيقية	د. / نوال بدوي على		أ.د. / جلال محمد عبد القادر	
٣.	الأمراض الباطنة العامة	د. / ميرفت محمد عطية		د. / حسن احمد حسانين	
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٥.	الأمراض الروماتيزمية وأمراض المناعة - أمراض الجهاز الحركى الأخرى والتأهيل والأطراف الصناعية والأجهزة التعويضية	د. / عبد اللاه محمد أحمد		أ.د. / نهال أحمد فتحي	

عميد الكلية

وكيل الكلية لشؤون الدراسات العليا



### Peer Revision

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

# **PROGRAM SPECIFICATION OF Physical Medicine, Rheumatology and Rehabilitation DIPLOMA**

**Sohag University**

**Faculty of Medicine**

## **A. Basic Information**

1. Program title: Diploma in Physical Medicine, Rheumatology and Rehabilitation
2. Program type: Single
3. Department: Physical Medicine, Rheumatology and Rehabilitation.
4. Coordinator: Dr. Abdullah Mohammed Ahmed Radwan
5. Assistant Coordinator: Ahmed Roshdy Al-Agamy Radwan.
6. External evaluator: Prof. Tayseer Mohammed Khedr
7. Last date of program specifications approval: Faculty council No. "250", decree No. "1378" dated 28/12/2013.

## **B. Professional Information**

### **1. 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.

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

### **2. Attributes of the post graduate:**

- 1- Application of the specific knowledge gained during practice of Physical Medicine, Rheumatology and Rehabilitation.
- 2- Identification of professional problems in this specialty and suggest solutions for them.
- 3- Mastering professional skills and usage of suitable technologies in practice of Physical Medicine, Rheumatology and Rehabilitation.
- 4- Ability to efficiently communicate and lead team works throughout organized professional work.
- 5- Decision making at the lights of the available information.
- 6- Perfect utilization of available resources.
- 7- Awareness of his role in community development and maintain good environment.

- 8- Reflects the commitment to act with integrity, credibility and professional norms and accountability.
- 9- Recognize the need to develop himself and to engage in continuous learning.

### **3. Intended learning outcomes (ILOs)**

#### **a) Knowledge and understanding**

By the end of the study of doctoral program in rheumatology the Graduate is expected to be able to:

- a1. Mention the normal structure and function of the musculoskeletal and neuromuscular systems of the human body
- a2. Mention the abnormal structure, and function of the musculoskeletal and neuromuscular systems of the human body.
- a3. Mention the physiology of muscle and nerve and the physiology of central nervous system
- a4. Mention theories, fundamentals and knowledge in the field of Physical Medicine, Rheumatology and Rehabilitation specialty.
- a5. Mention the differential diagnosis of rheumatological diseases.
- a6. List the definition and types of handicap.
- a7. Enumerate and Define the different physical modalities and their uses and contraindications.
- a8. Have an idea about the common internal medical problems and diseases.
- a9. Define the principles and fundamentals of ethics and legal aspects of professional practice in the field of Physical Medicine, Rheumatology and Rehabilitation
- a10. Mention the principles and fundamentals of quality of professional practice in the field of Physical Medicine, Rheumatology and Rehabilitation
- a11. Mention the effect of professional practice on the environment and the methods of environmental development and maintenance.
- a12. Define the screening tests pertinent to selected diseases and the at-risk approach in the application of screening tests

#### **b) Intellectual skills**

By the end of the study of doctoral program in rheumatology the Graduate is expected to be able to:

- b1. Identify and analyze information in the field of Physical Medicine, Rheumatology and Rehabilitation and rank them according to their priorities.
- b2. Interpret data acquired through history taking to reach a provisional diagnosis.
- b3. Link between knowledge for Professional problems' solving.
- b4. Analyze researches and issues related to the Physical Medicine, Rheumatology and Rehabilitation
- b5. Assess risk in professional practices in the field of Physical Medicine, Rheumatology and Rehabilitation
- b6. Make professional decisions in light of the available data.

#### **c) Professional and practical skills**

By the end of the study of doctoral program in rheumatology the Graduate is expected to be able to:

- c1. Apply clinical and medical skills in the area of Physical Medicine, Rheumatology and Rehabilitation

- c2. Perform complete history and full physical examination of rheumatic patients, and patients needing rehabilitation.
- c3. Interpret the results of diagnostic procedures.
- c4. Diagnose rheumatological illnesses.
- c5. Write a professional treatment prescription.
- c6. Write medical reports.
- c7. Use and apply methods and tools existing in the area of Physical Medicine, Rheumatology and Rehabilitation
- c8. Apply rehabilitation program for the different varieties of disabilities.
- c9. Inject joints and soft tissues.
- c10. Perform community diagnosis

**d) General and transferable skills**

By the end of the study of doctoral program in rheumatology the Graduate is expected to be able to:

- d1. Communicate well with his colleagues, top management and subordinates.
- d2. Establish a good patient-physician relationship
- d3. Use information technology to serve the development of professional practice
- d4. Choose and use the suitable computer program packages
- d5. Apply self-assessment methods and identify personal learning needs.
- d6. Use different sources to obtain information and knowledge.
- d7. Work as a part of a team and manage time.
- d8. Lead teams in familiar professional contexts.
- d9. Learn himself continuously.

**4. 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 (NAQAEE) for postgraduate programs. This was approved by the Faculty Council decree No. 6854, in its session No. 177, dated 18/5/2009. Based on these NARS, Academic Reference Standards were suggested for this program. These ARS were evaluated by external evaluator, and revised by external evaluator and approved by the Faculty Council decree No.7528, in its session No. 191, dated 15/3/2010. The adoption of NARS and the suggested ARS were approved by University council decree No 587, in its session No.60. dated 26-12-2011.

**5. Curriculum Structure and Contents**

5.a- Program duration: 6 semesters (3 years)

5.b- Program structure:

5.b.i- No. of hours per week:

Subject	No. of Hours/Week		
	Lectures	Practical	Clinical
<b>First Part:</b>			
Basic Sciences:			
Anatomy	3	2	
Physiology	3	2	
Internal Medicine	3		2
Statistics	1	2	
<b>Second Part:</b>			
Majors:			
Rheumatic Diseases	2	-	2
Immunology	2	-	2

Musculoskeletal Disorders	2	-	2
Physical Modalities	2	-	2
Rehabilitation Medicine	2	-	2

## 6. Program courses

All the 8 courses are compulsory.

### First Part:

#### a. Compulsory

Course Title	No of credit hours	No. of hours/week			Program ILOs
		Lect.	Pract.	Clin.	
Anatomy	4	3		2	a1, a6, b3, c1, c9, d3
Medical Physiology	4	3		2	a1, a3, b3, c1, c3, d3
Internal Medicine	4	3		2	a4, a8, b2, b3, b5, c1, c2, c3, d2, d5, d6, d7, d9
Biostatistics	2	1		2	a12, b4, c10, d6

### Second part:

#### a. Compulsory

Course Title	No of credit hours	No. of hours/week			Program ILOs
		Lect.	Pract.	Clin.	
Rheumatic diseases	5	2		2	a2, a4, a5, a9, a10, a11, b1, b2, b4, b5, b6, c1, c2, c3, c4, c5, c6, d1, d2, d3, d4, d5, d6, d9
Immunology	5	2		2	a4, a5, b1, b6, c3, d1, d3, d6, d9
Musculoskeletal Disorders	5	2		2	a4, a5, b1, b2, b3, b6, c1, c3, c4, c6, d1, d3, d7
Physical Medicine	5	2		2	a3, a4, a7, a9, a10, b1, b4, b5, b6, c1, c5, c6, c7, d2, d6, d7, d8
Rehabilitation Medicine	5	2		2	a2, a4, a6, a9, 10, a11, b1, b3, b4, b5, b6, c1, c2, c6, c7, c8, c9, d1, d2, d3, d4, d6, d7, d8, d9

## 7. Program admission requirements

### I) General Requirement

- Candidates should have either:
  - MBBCh Degree from any Egyptian Faculty of Medicine or
  - 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.

### 8. Regulations for progression and program completion:

Duration of program is 3 semesters (1.5 years), starting from registration till the 2<sup>nd</sup> part exam; divided to:

#### A) First Part: (≥6 months=1 semester):

- Program-related basic sciences.
- At least six months after registration should pass before the student can ask for examination in the 1<sup>st</sup> part.
- Two sets of exams: 1<sup>st</sup> in April — 2<sup>nd</sup> in October.

4. For the student to pass the first part exam, a score of at least 60% in each curriculum is needed (with at least 40% of the written exam).
5. Those who fail in one curriculum need to re-exam it only.

**B) Second Part:** ( $\geq 24$  months=4 semesters):

1. Program related specialized science of internal medicine courses.
2. After passing at least:
  - a. 12 months training in the department of internal medicine.
  - b. The student should pass the 1<sup>st</sup> part before asking for examination in the 2<sup>nd</sup> part.
3. Two sets of exams: 1st in April — 2nd in October.
4. For the student to pass the second part exam, a score of at least 60% in each curriculum is needed (with at least 60% of the written exam and 50% of the oral, clinical and practical exam).

**9. Methods of Student assessment**

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

**Assessment schedule:**

Part I:

- Anatomy: Written Exam (3 hours) + structured oral Exam.
- Medical Physiology: Written Exam (3 hours) + structured oral Exam.
- Internal Medicine and its subsidiaries: Written Exam (3 hours) + OSCE + Structured oral Exam.

Part II:

- Rheumatic diseases and Immunology: Written Exam (3 hours) + OSCE + Structured oral Exam.
- Musculoskeletal Disorders, Physical Medicine and Rehabilitation Medicine Written Exam (3 hours) + OSCE + OSPE+ Structured oral Exam.

**10. Evaluation of program intended learning outcomes**

Evaluator	Tool	Sample
1- Senior students	Questionnaire	1
2- Alumni	Questionnaire	-
3- Stakeholders (Employers)	Questionnaire	30
4-External Evaluator(s) (External Examiner(s))	Report	1
5- Other		

## Course Specification of Human Anatomy & Embryology in Diploma degree in Physical Medicine, Rheumatology & Rehabilitation

**Sohag University**

**Faculty/ Medicine**

1. Program on which the course is given: Diploma Degree in Physical Medicine, Rheumatology and Rehabilitation
2. Major or Minor element of programs: Minor
3. Department offering the program: Physical Medicine, Rheumatology and Rehabilitation Department.
4. Department offering the course: Human Anatomy & Embryology Department.
5. Academic year / Level: 1<sup>st</sup> part.
6. Date of specification approval: Faculty council No. "250", decree No. "1378" dated 28/12/2013

### A. Basic Information

**Title:** Human Anatomy & Embryology  
**ANA 0527-100**

**Code:**

**Total hours:**

Lectures	Practical	Clinical	Total hours	Credit
45	30	-	75	4

### B. Professional Information

#### 1. Overall Aims of Course

By the end of the course the student should be able to have the professional knowledge about the anatomy of the upper limb ,lower limb and vertebral column

#### 2. Intended Learning Outcomes of Course (ILOs)

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

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

- a1. Mention the normal structure of the musculoskeletal and neuromuscular systems of the human body
- a2. Mention the definition and types of handicap and deformities.

##### b) **Intellectual skills:**

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

- b1. Link between knowledge for Professional problems' solving.

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

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

- c1. Apply the basic anatomical skills in the area of Physical Medicine, Rheumatology and Rehabilitation
- c2. Know the surface marking and anatomical landmarks needed for injecting joints and soft tissue rheumatic disorders

##### d) **General and Transferrable skills:**

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

- d1. Use information technology to serve the development of professional practice

### 3. Contents

Topic	No. of hours	Lecture	Practical
Introduction	5	3	2
Anatomy of the upper limb <ul style="list-style-type: none"> <li>• Skelton of the upper limb.</li> <li>• Muscles of the upper limb.</li> <li>• Joints of the upper limb.</li> <li>• Blood vessels of the upper limb.</li> <li>• Nerves of the upper limb.</li> <li>• Anatomy of the hand.</li> </ul>	20	12	8
Anatomy of the lower limb <ul style="list-style-type: none"> <li>• Skelton of the lower limb.</li> <li>• Muscles of the lower limb.</li> <li>• Joints of the lower limb.</li> <li>• Blood vessels of the lower limb.</li> <li>• Nerves of the lower limb.</li> <li>• Anatomy of the foot.</li> </ul>	20	12	8
Anatomy of the vertebral column	8	5	3
Anatomy of the back	8	5	3
Anatomy of the spinal nerves	5	3	2
Revision	9	5	4
<b>Total Hours</b>	<b>75</b>	<b>45</b>	<b>30</b>
<b>Credit</b>	<b>5</b>	<b>3</b>	<b>2</b>

### 4. Teaching and Learning Methods

- 4-1 Lectures.
- 4-2 Clinical lessons.
- 4-3 Seminars.
- 4-4 Assignments for the students to empower and assess the general and transferrable skills.
- 4-5 Attending and participating in scientific meetings, conferences, workshops and thesis discussion to acquire the general and transferrable skills needed.

### 5. Student Assessment Methods

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

#### Assessment Schedule

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

## Weighting of Assessments

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

Formative only assessments: attendance and absenteeism

### 6. List of References

#### 6.1- Course Notes

Lecture Notes prepared by the staff members in the Department.

#### 6.2- Essential Books (Text Books)

Gray's Anatomy, 1987.

#### 6.3- Recommended Books

A colored Atlas of Human anatomy and Embryology, 2002.

#### 6.4- Periodicals, Web Sites, ... etc

### 7. Facilities Required for Teaching and Learning

1. ADEQUATE INFRASTRUCTURE: including teaching places (teaching classes, teaching halls), comfortable desks, good source of aeration, bathrooms, good illumination and safety, & security tools.
2. TEACHING TOOLS: including screens, computers including CDs (RW) and USB ports, data shows, projectors, flip charts, white boards, video player, digital video camera, scanner, copier, color and laser printer.
3. COMPUTER PROGRAMS: for designing and evaluating MCQs.

**Course Coordinator:** Dr . Salwa M. Ouies.

**Head of Department:** Dr. Mohamed A. Eldsoky.

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

## Course Specification of Medical Physiology in Diploma degree in Physical Medicine, Rheumatology & Rehabilitation

**Sohag University**

**Faculty of Medicine**

1. Program on which the course is given: Diploma Degree in Physical Medicine, Rheumatology and Rehabilitation
2. Major or Minor element of programs: Minor
3. Department offering the program: Physical Medicine, Rheumatology and Rehabilitation Department.
4. Department offering the course: Medical Physiology Department.
5. Academic year / Level: 1<sup>st</sup> part.
6. Date of specification approval: Faculty council No. "250", decree No. "1378" dated 28/12/2013

### A. Basic Information

**Title:** Medical Physiology

**Code:PHY0527-100**

**Total hours:**

Lectures	Practical	Clinical	Total hours	Credit
45	30	-	75	5

### B. Professional Information

#### 1. Overall Aims of Course

To prepare a Rheumatology & rehabilitation physician oriented with the physiology of muscle and nerve, also that of C.N.S & endocrine physiology. in addition , graduates should have enough knowledge about the regulation of body temperature, body fluids, homeostasis & haemostasis.

#### 2. Intended Learning Outcomes of Course (ILOs)

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

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

- a1. Mention the normal function of the musculoskeletal and neuromuscular systems of the human body
- a2. Mention the physiology of muscle and nerve and the physiology of central nervous system

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

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

- b1. Link between knowledge for Professional problems' solving.

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

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

- c1. Apply the basic Physiological skills in the area of Physical Medicine, Rheumatology and Rehabilitation
- c2. Interpret the results of diagnostic procedures concerning the neuromuscular physiology.

##### d) **General and Transferrable Skills:**

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

d1. Use information technology to serve the development of professional practice

### 3. Contents

Topic	No. of hours	Lecture	Practical
The physiology of central nervous system	10	6	4
• Pain sensation.	7	4	3
• Pain control system	11	6	5
• Stretch reflex			
The physiology of muscle and nerve			
• Characteristics of nerves	8	5	3
• Electrical examination of muscles and nerves	8	5	3
• Mechanism of muscle contraction	9	5	4
• Types of muscle contraction	8	5	3
• Control of muscle contraction	8	5	3
• Energy consumption of muscle contraction	6	4	2
<b>Total Hours</b>	<b>75</b>	<b>45</b>	<b>30</b>
<b>Credit</b>	<b>5</b>	<b>3</b>	<b>2</b>

### 4. Teaching and Learning Methods

4-1 Lectures.

4-2 Clinical lessons.

4-3 Seminars.

4-4 Assignments for the students to empower and assess the general and transferrable skills.

4-5 Attending and participating in scientific meetings, conferences, workshops and thesis discussion to acquire the general and transferrable skills needed.

### 5. Student Assessment Methods

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

### Assessment Schedule

1- Assessment 1: written examination week 24

2- Assessment 2: Structured Oral Exam week 24

4- Assessment of attendance & absenteeism throughout the course

## Weighting of Assessments

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

Formative only assessments: attendance and absenteeism

## 6. List of References

### 6.1- Course Notes

Lecture Notes prepared by the staff members in the Department.

### 6.2- Essential Books (Text Books)

Gyton textbook of physiology, 1992.

## 7. Facilities Required for Teaching and Learning

4. ADEQUATE INFRASTRUCTURE: including teaching places (teaching classes, teaching halls), comfortable desks, good source of aeration, bathrooms, good illumination and safety, & security tools.
5. TEACHING TOOLS: including screens, computers including CDs (RW) and USB ports, data shows, projectors, flip charts, white boards, video player, digital video camera, scanner, copier, color and laser printer.
6. COMPUTER PROGRAMS: for designing and evaluating MCQs.

**Course Coordinator:** Dr. Hoda Mostafa

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

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

# Course Specification of Internal Medicine in Diploma degree in Physical Medicine, Rheumatology & Rehabilitation

Sohag University

Faculty of Medicine

## Course Specifications

1. Program(s) on which the course is given: Diploma Degree in Physical Medicine, Rheumatology and Rehabilitation
2. Major or Minor element of programs: Minor
3. Department offering the program: Physical Medicine, Rheumatology and Rehabilitation Department.
4. Department offering the course: Internal Medicine Department.
5. Academic year / Level: 1st part.
6. Date of specification approval: Faculty council No. "250", decree No. "1378" dated 28/12/2013

## A. Basic Information

**Title:** Internal Medicine

**Code:** MED0527-100

**Total hours:**

Lectures	Practical	Clinical	Total hours	Credit
60	-	60	120	5

## B. Professional Information

### 1. 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:

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

### 2. Intended Learning Outcomes of Course (ILOs)

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

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

- a1. Mention basic Internal Medicine knowledge Related to Physical Medicine, Rheumatology and Rehabilitation specialty.
- a2. Have an idea about the common internal medical problems and diseases.

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

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

- b1. Interpret data acquired through history taking to reach a provisional diagnosis.

- b2. Link between knowledge for Professional problems' solving.
- b3. Describe the concept of emergency management of acute medical disorders.

**c) Professional and Practical Skills:**

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

- c1. Apply clinical medical skills in the area of Physical Medicine, Rheumatology and Rehabilitation
- c2. Train to perform complete history and full physical examination.
- c3. Interpret the results of diagnostic procedures.

**d) General and Transferrable Skills:**

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

- d1. Establish a good patient-physician relationship
- d2. Apply self-assessment methods and identify personal learning needs.
- d3. Use different sources to obtain information and knowledge.
- d4. Work as a part of a team and manage time.
- d5. Learn himself continuously.

**3. Contents**

Topic	No. of hours	Lecture	Clinical
Cardiology	13	8	5
Hematology	10	6	4
Hepatology	10	6	4
Endocrinology and diabetes	8	5	3
Nephrology	10	6	4
Gastroenterology	10	6	4
General medicine	10	6	4
Respiratory disease	4	2	2
<b>Total Hours</b>	<b>75</b>	<b>45</b>	<b>30</b>
<b>Credit</b>	<b>5</b>	<b>3</b>	<b>2</b>

**4. Teaching and Learning Methods**

- 4-1 Lectures.
- 4-2 Clinical lessons.
- 4-3 Seminars.
- 4-4 Assignments for the students to empower and assess the general and transferrable skills.
- 4-5 Attending and participating in scientific meetings, conferences, workshops and thesis discussion to acquire the general and transferrable skills needed.

**5. Student Assessment Methods**

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

	General transferable skills
5.5 assignment	-General transferable skills, intellectual skills

### Assessment Schedule

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

### Weighting of Assessments

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

Formative only assessments: attendance and absenteeism

## 6. List of References

### 6.1- Course Notes

Lecture Notes prepared by the staff members in the Department.

### 6.2- Essential Books (Text Books)

- Kumar and Clarke Textbook of Medicine; Parveen Kumar and Richard Clark; Blackwell Science; 14th edition, 2007
- Hutchison's Clinical Methods; Robert Hutchison; Harry Rainy; 21st edition; 2003

### 6.3- Recommended Books

- Cecil Textbook of Medicine; McGraw Hill; 16th edition, 2004.
- Harrison's Textbook of Medicine, McGraw Hill, 2005.

### 6.4- Periodicals, Web Sites, ... etc

## 7. Facilities Required for Teaching and Learning

1. ADEQUATE INFRASTRUCTURE: including teaching places (teaching classes, teaching halls), comfortable desks, good source of aeration, bathrooms, good illumination and safety, & security tools.
2. TEACHING TOOLS: including screens, computers including CDs (RW) and USB ports, data shows, projectors, flip charts, white boards, video player, digital video camera, scanner, copier, color and laser printer.
3. COMPUTER PROGRAMS: for designing and evaluating MCQs.

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

**Head of Department: Prof . Hassan Shehata.**

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

## Course Specification of Biostatistics in Diploma Degree of Physical medicine ,Rheumatology & Rehabilitation

Sohag University

Faculty of Medicine

1. Program on which the course is given: Diploma Degree of Physical medicine ,Rheumatology & Rehabilitation
2. Major or minor element of program: minor
3. Department offering the program: Physical medicine ,Rheumatology & Rehabilitation
4. Department offering the course: public Health and community medicine department.
5. Academic year/ Level: first part
6. Date of specification approval: Faculty council No. "250", decree No. "1378" dated 28/12/2013

### A. Basic Information

**Program title** Course Specification of medical Biostatistics in Diploma degree in Physical medicine, Rheumatology & Rehabilitation

**Code:** COM 0527-100

Course	Lectures	Practical:	Total:	Total credit hours :
Medical Biostatistics	15 hrs	30	45	2 hrs

### B. Professional Information

#### 1. Overall Aims of Course

To develop a graduate who will apply the knowledge and skills learned, and is able to utilize the basics of medical statistics in his career and research

#### 2. Intended Learning Outcomes of Course (ILOs):

According to the intended goals of the faculty

##### a) Knowledge and understanding:

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

- a1. Define the screening tests pertinent to selected diseases and the at-risk approach in the application of screening tests
- a2. Explain the usefulness of screening tests, and calculate sensitivity, specificity, and predictive values Define terms of research methodology

##### b) Intellectual Skills

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

- b1. Identify and collect data variables impacting health and disease
- b2. Assess risk in professional practices in the field of Rheumatology
- b3. Analyze research and issues related to the Rheumatology.

**c) Professional and Practical Skills:**

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

- c1. Perform community diagnosis
- c2. Conduct Social & Health Surveys
- c3. Diagnose an epidemic

**d) General and Transferable Skills**

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

- d1. Use different sources to obtain information and knowledge.
- d2. Work coherently and successfully as a part of a team and team's leadership.
- d3. Use different sources to obtain information and knowledge and collect data

**3. Course Contents:**

Topic	No. of hours	Lecture	Practical
Methodology & statistics Terminology and rationale Data collection Types of Data Tabulation of data Graphical presentation of data Measures of central tendency Measures of dispersion Normal distribution curves International classification of diseases International death certificate Study design: Cross sectional study and the prevalence rate Cohort study, incidence rate, relative & attributable risk Case-control study, Odd's ratio Sampling Investigation of an epidemic, the attack rates		15	30
Total	45	15	30

**4. Teaching and Learning Methods:**

- 4.1. Lectures.
- 4.2 practical sessions
- 4.3- Computer search assignments

**5. Student Assessment Methods**

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

## Assessment Schedule

Assessment 1. Written examination	24week
Assessment 2. Structured Oral Exam	24week
Assessment 3. Attendance and absenteeism	

## Weighting of Assessments

Final-term Written Examination	50 %
Structured Oral Examination	50 %
Total	100%

Formative only assessments: attendance and absenteeism and Computer search assignments

## 6. List of References

6.1- Course Notes

Lecture notes prepared by staff members in the department

Epidemiology in medical practice, 5<sup>th</sup> edition. Churchill Livingstone. New York, London and Tokyo, 2003.

6.4- Periodicals, Web Sites etc

1-American Journal of Epidemiology

2-British Journal of Epidemiology and Community Health

3- WWW. CDC and WHO sites

## 7. Facilities Required for Teaching and Learning

**1-Adequate infrastructure:** including teaching places (teaching class), comfortable desks, good source of aeration, bathrooms, good illumination and safety and security

**2-Teaching tools:** including screens, computers data shows, projectors, flip charts, white board, video player, digital video camera, scanner, copier, color and laser printers

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

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

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

## Course Specification of Second Part in Diploma degree in Physical medicine, Rheumatology & Rehabilitation

Sohag University

Faculty of Medicine

1. Program on which the course is given: Diploma Degree in Physical Medicine, Rheumatology and Rehabilitation
2. Major or Minor element of programs: Major
3. Department offering the program: Physical Medicine, Rheumatology and Rehabilitation Department.
4. Department offering the course: Physical Medicine, Rheumatology and Rehabilitation Department.
5. Academic year / Level: 2<sup>nd</sup> part.
6. Date of specification approval: Faculty council No. "250", decree No. "1378" dated 28/12/2013

### A. Basic Information

**Title:** Second Part Courses

**Code:**RHE0527-100

**Total hours:**

Module	Lectures	Clinical	Total hours	Credit
<b>Rheumatic Diseases</b>	45	60	105	5
<b>Musculoskeletal Diseases</b>	45	60	105	5
<b>Immunology</b>	45	60	105	5
<b>Physical Medicine</b>	45	60	105	5
<b>Rehabilitation</b>	45	60	105	5

### B. Professional Information

#### 1. Overall Aims of Course

By the end of this course the students should be able to have the professional knowledge of diagnosis of most rheumatological diseases so as to be able to professionally protect, diagnose and advice the Rheumatology patient correctly, and should be able to have the professional knowledge of different physical modalities available for treating and palliating physically handicapped patients and to have the skills of dealing with these conditions so as to minimize the handicap and pain and maximize function of the affected organs and systems.

#### 2. Intended Learning Outcomes of Course (ILOs)

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

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

##### **Module 1: Rheumatic Diseases:**

- a1. Mention the abnormal structure, and function of the musculoskeletal and neuromuscular systems of the human body, and the aetiopathogenesis of rheumatic diseases.

- a2. Mention theories, fundamentals and knowledge in the field of Rheumatology.
- a3. List the differential diagnosis of rheumatological diseases.
- a4. Define the principles and fundamentals of ethics and legal aspects of professional practice in the field of Rheumatology.
- a5. List the principles and fundamentals of quality of professional practice in the field of Rheumatology.
- a6. Mention the effect of professional practice on the environment and the methods of environmental development and maintenance.

**Module 2: Musculoskeletal Diseases:**

- a1. Mention theories, fundamentals and knowledge in the field of Musculoskeletal Disorders.
- a2. Mention the differential diagnosis of Musculoskeletal diseases.

**Module 3: Immunology:**

- a3. Mention Immunological theories, fundamentals and knowledge in the field of Rheumatology.
- a4. Mention the differential diagnosis of common auto-immune diseases.

**Module 4: Physical Medicine:**

- a1. Mention the physiology of muscle and nerve.
- a2. Mention theories, fundamentals and knowledge in the field of Physical Medicine.
- a3. Enumerate and Define the different physical modalities and their uses and contraindications.
- a4. Define the principles and fundamentals of ethics and legal aspects of professional practice in the field of Physical Medicine.
- a5. List the principles and fundamentals of quality of professional practice in the field of Physical Medicine.

**Module 5: Rehabilitation:**

- a1. Mention the abnormal structure, and function of the musculoskeletal and neuromuscular systems of the human body in different handicapping diseases and injuries.
- a2. Mention theories, fundamentals and knowledge in the field of Rehabilitation specialty.
- a3. a-3 List the definition and types of handicap.
- a4. Define the principles and fundamentals of ethics and legal aspects of professional practice in the field of Rehabilitation
- a5. Enumerate the principles and fundamentals of quality of professional practice in the field of Rehabilitation.
- a6. Mention the effect of professional practice on the environment and the methods of environmental development and maintenance.

**b) Intellectual Skills**

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

**Module 1: Rheumatic Diseases:**

- b1. Identify and analyze information in the field of Rheumatology and rank them according to their priorities.
- b2. Interpret data acquired through history taking to reach a provisional diagnosis.
- b3. Analyze researches and issues related to the Rheumatology.
- b4. Assess risk in professional practices in the field of Rheumatology.
- b5. Make professional decisions in light of the available data.

**Module 2: Musculoskeletal Diseases:**

- b1. Identify and analyze information in the field of Musculoskeletal Disorders and rank them according to their priorities.
- b2. Interpret data acquired through history taking to reach a provisional diagnosis.
- b3. Link between knowledge for Professional problems' solving.
- b4. Make professional decisions in light of the available data.

**Module 3: Immunology:**

- b1. Identify and analyze immunological information in the field of Rheumatology and rank them according to their priorities.
- b2. Make professional decisions in light of the available data.

**Module 4: Physical Medicine:**

- b1. Identify and analyze information in the field of Physical Medicine and rank them according to their priorities.
- b2. Analyze researches and issues related to the Physical Medicine.
- b3. Assess risk in professional practices in the field of Physical Medicine.
- b4. Make professional decisions in light of the available data.

**Module 5: Rehabilitation:**

- b1. Identify and analyze information in the field of Rehabilitation and rank them according to their priorities.
- b2. Link between knowledge for Professional problems' solving.
- b3. Analyze researches and issues related to the Rehabilitation
- b4. Assess risk in professional practices in the field of Rehabilitation
- b5. Make professional decisions in light of the available data.

**c) Professional and Practical Skills**

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

**Module 1: Rheumatic Diseases:**

- c1. Apply clinical and medical skills in the area of Rheumatology.
- c2. Perform complete history and full physical examination of rheumatic patients.
- c3. Interpret the results of diagnostic procedures.
- c4. Diagnose rheumatological illnesses.
- c5. Write a professional treatment prescription.
- c6. Write medical reports.

**Module 2: Musculoskeletal Diseases:**

- c1. Apply clinical and medical skills in the area of Musculoskeletal Disorders.
- c2. Interpret the results of diagnostic procedures.
- c3. Diagnose musculoskeletal illnesses.
- c4. Write medical reports.

**Module 3: Immunology:**

- c1. Interpret the results of diagnostic serological and immunological procedures.

**Module 4: Physical Medicine:**

- c2. Apply clinical and medical skills in the area of Physical Medicine.
- c3. Write a professional physical treatment prescription.
- c4. Write medical reports.
- c5. Use and apply methods and tools existing in the area of Physical Medicine

**Module 5: Rehabilitation:**

- c1. Apply clinical and medical skills in the area of Rehabilitation.
- c2. Perform complete history and full physical examination of patients needing rehabilitation.
- c3. Write medical reports.
- c4. Use and apply methods and tools existing in the area of Rehabilitation
- c5. Apply rehabilitation program for the different varieties of disabilities.
- c6. Inject joints and soft tissues.

**d) General and Transferable Skills**

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

**Module 1: Rheumatic Diseases:**

- d1. Communicate well with his colleagues, top management and subordinates.
- d2. Establish a good patient-physician relationship
- d3. Use information technology to serve the development of professional practice
- d4. Choose and use the suitable computer program packages
- d5. Apply self-assessment methods and identify personal learning needs.
- d6. Use different sources to obtain information and knowledge.
- d7. Learn himself continuously.

**Module 2: Musculoskeletal Diseases:**

- d1. Communicate well with his colleagues, top management and subordinates.
- d2. Use information technology to serve the development of professional practice
- d3. Work as a part of a team and manage time.

**Module 3: Immunology:**

- d1. Communicate well with his colleagues, top management and subordinates.
- d2. Use information technology to serve the development of professional practice
- d3. Use different sources to obtain information and knowledge.
- d4. Learn himself continuously.

**Module 4: Physical Medicine:**

- d1. Establish a good patient-physician relationship
- d2. Use different sources to obtain information and knowledge.
- d3. Work as a part of a team and manage time.
- d4. Lead teams in familiar professional contexts.

**Module 5: Rehabilitation:**

- d1. Communicate well with his colleagues, top management and subordinates.
- d2. Establish a good patient-physician relationship
- d3. Use information technology to serve the development of professional practice
- d4. Choose and use the suitable computer program packages
- d5. Use different sources to obtain information and knowledge.
- d6. Work as a part of a team and manage time.
- d7. Lead teams in familiar professional contexts.
- d8. Learn himself continuously.

### 3. Contents

#### Module 1: Rheumatic Diseases:

Topic	No. of hours	Lecture	Clinical
Rheumatoid Arthritis	11	4	7
Juvenile Idiopathic Arthritis	10	4	6
Psoriatic Arthritis	4	2	2
Ankylosing Spondylitis	4	2	2
Reactive and Enteropathic Arthritis	2	1	2
Osteoarthritis	9	3	6
GOUT	9	3	6
Other Crystal Induced Arthropathies	4	2	2
Systemic Lupus Erythematosus	10	5	5
Systemic Sclerosis	8	4	4
Idiopathic Inflammatory Myopathy	6	3	3
Metabolic Myopathies	4	1	3
Sjogren's syndrome	4	2	2
Vasculitides	4	2	2
Adult Onset Still's Disease	3	1	2
Sarcoidosis	4	2	2
Amyloidosis	4	2	2
Osteoporosis	4	2	2
<b>Total Hours</b>	105	45	60
<b>Credit</b>	5	3	2

#### Module 2: Musculoskeletal Diseases:

Topic	No. of hours	Lecture	Practical
Introduction To Joint Anatomy And Joint Physiology	16	6	10
Public Health And Arthritis. A Growing Problem	10	4	6
Evaluation Of Rheumatology Patient: Monoarticular Joint Disease	16	6	10
Polyarticular Joint Disease	11	5	6
Neck and Back Pain	11	5	6
Regional Rheumatic Pain Syndrome	12	6	6
The Fibromyalgia Syndrome	7	3	4
Complex Regional Pain Syndromes	11	5	6
<b>Total Hours</b>	105	45	60
<b>Credit</b>	5	3	2

#### Module 3: Immunology:

Topic	No. of hours	Lecture	Clinical
Introduction to Immunology	13	5	8
Innate and Acquired Immune Response	13	5	8
Cells involved in Autoimmune Disease and Arthritis	22	10	12
Immunological basis of Rheumatic Diseases	35	15	20
Immunoregulatory Drugs	22	10	12

Total hours	105	45	60
<b>Credit</b>	5	3	2

**Module 4: Physical Medicine:**

<b>Topic</b>	<b>No. of hours</b>	<b>Lecture</b>	<b>Clinical</b>
Introduction To Anatomy of the Neuromuscular System	10	4	6
Therapeutic Physical Agents	21	9	12
Electrotherapy	21	9	12
Complementary and Alternative Medicine	8	4	4
Wheelchairs and assistive devices	8	4	4
Upper and lower limb prosthesis	8	4	4
Spinal Orthosis	14	5	9
Upper and lower limb orthosis	15	6	9
Total hours	105	45	60
<b>Credit</b>	5	3	2

**Module 5: Rehabilitation:**

<b>Topic</b>	<b>No. of hours</b>	<b>Lecture</b>	<b>Clinical</b>
Different Types of Paralysis	8	3	5
Pain and its nature and pathways	7	3	4
Human Walking	7	3	4
Disability Determination	8	3	5
Imaging Techniques Relative to Rehabilitation	8	3	5
Manipulation, Massage and Traction	6	3	3
Injection Procedures	7	3	4
Therapeutic Exercises	6	3	3
Aquatic Rehabilitation	4	2	2
Ethical issues in Rehabilitation	3	1	2
Measuring Quality of Life in Rehabilitation Medicine	5	2	3
Gait restoration and walking Rehabilitation	6	3	3
Spasticity and movement Disorders	8	4	4
Neurogenic bladder and bowel rehabilitation	5	2	3
Stroke rehabilitation and Rehabilitation of traumatic brain injury	7	3	4
Cardiac Rehabilitation	4	2	2
Respiratory Rehabilitation	3	1	2
Burn Rehabilitation	3	1	2
<b>Total Hours</b>	105	45	60
<b>Credit</b>	5	3	2

**4. Teaching and Learning Methods**

4-1 Lectures.

- 4-2 Clinical lessons.
- 4-3 Seminars.
- 4-4 Assignments for the students to empower and assess the general and transferrable skills.
- 4-5 Attending and participating in scientific meetings, conferences, workshops and thesis discussion to acquire the general and transferrable skills needed.

## **5. Student Assessment Methods**

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

### **Assessment Schedule**

- 1- Assessment 1: written examination week 96-100
- 2- Assessment 2: Structured Oral Exam week 96-100
- 3- Assessment 3: OSCE week 96-100
- 4- Assessment of attendance & absenteeism throughout the course

### **Weighting of Assessments**

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

Formative only assessments: attendance and absenteeism

## **6. List of References**

### **6.1- Course Notes**

Lecture Notes prepared by the staff members in the Department.

### **6.2- Essential Books (Text Books)**

- 1. Primer Textbook of rheumatology, 13<sup>th</sup> edition, 2008
- 2. Roitt Essential Immunology.
- 3. PM & R secrets 2004

### **6.3- Recommended Books**

- 1. Kelley textbook of rheumatology, 8<sup>th</sup> edition, 2009
- 2. Manual of Rheumatology, 2<sup>nd</sup> edition, 2004
- 3. Current of rheumatology, 2<sup>nd</sup> edition, 2007
- 4. A coloured Atlas of Microbiology.
- 5. Delisa Textbook of Rehabilitation and Physical Medicine, 2004

#### **6.4- Periodicals, Web Sites, ... etc**

1. ACR journal of rheumatology.
2. Arthritis Journal
3. EULAR journal
4. ILAR journal.
5. <http://mic.sgmjournals.org/>

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

1. ADEQUATE INFRASTRUCTURE: including teaching places (teaching classes, teaching halls), comfortable desks, good source of aeration, bathrooms, good illumination and safety, & security tools.
2. TEACHING TOOLS: including screens, computers including CDs (RW) and USB ports, data shows, projectors, flip charts, white boards, video player, digital video camera, scanner, copier, color and laser printer.
3. COMPUTER PROGRAMS: for designing and evaluating MCQs.

**Course Coordinator:** Dr. Abd Ellah Radwan

**Head of the Department:** Prof. Dr. Nihal Ahmed Fathi

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