



# توصيف برنامج الماجستير في الطب الرياضي





جامعة بنها  
كلية الطب البشرى  
قسم الطب الرياضى

توصيف برنامج ماجستير فى الطب الرياضى  
(عام دراسى 2020-2021)

Basic information

أ. معلومات أساسية

- 1- **Name of the program:** Master of Science in Sports Medicine
- 2- **Nature of the program:** single
- 3- **Departments:**
  - **Responsible Department:** Sports Medicine
  - **Participating Departments:** Anatomy, Physiology, Pharmacology, Biochemistry, Community, environmental & occupational medicine, internal medicine, Emergency medicine, Dermatology, andrology and STDs, Orthopedic surgery and Neuropsychiatry.
- 4- **Coordinator:** Dr. Hosny Abd El-Rahman  
Professor of Community, environmental and occupational Medicine.
- 5- **Internal evaluation of program specification:** Dr. Abd El-Sameea Halawa  
Professor of Orthopedic Surgery, Benha University.
- 6- **External evaluation of program specification:** Dr. Maha Saber  
National Research Center
- 7- **Date of approval of program specification:** Department Council  
September/2020 and Faculty Council 15/9/2020.



## Professional information

## ب. معلومات متخصصة:

### 1 - الأهداف العامة للبرنامج :

#### 1- Overall Aims of the Program:

*The overall aims of the program are to:*

- 1.1. *Provide* students with the basic knowledge of normal and abnormal anatomy, physiology biomechanics of the musculoskeletal system.
- 1.2 *Give* students a background covering the common and important sports related disorders as regard causes, clinical presentation, diagnosis and management,
- 1.3. *Allow* students to analyze professional problems in the field of Sports Medicine and plan for their evaluation and management,
- 1.4. *Use* of modern resources for establishment of specialized professional skills in problem solving and decision-making,
- 1.5. *Have* life-long learning competencies necessary for continuous professional development,
- 1.6. *Realize* research related to Sport Medicine and their community expansion,
- 1.7. *Build-up* their basic administrative skills necessary for delivery of appropriate health service.

2 - المخرجات التعليمية المستهدفة من البرنامج :

#### 2-Intended Learning Outcomes (ILOS):

##### 2.a. Knowledge and Understanding

أ.2 - المعرفة والفهم :

*By the end of the program, the candidate should be able to:*



**2.a.1. Define** the normal anatomy, physiology and biomechanics of body musculoskeletal as related to their function.

**2.a.2. List** the common causes of sports related disorders (trauma, medical, emergency, dermatological, psychological) as well as the pathogenesis and management of them.

**2.a.3. Describe** the physical morbidity of musculoskeletal diseases and discuss functional plans for management,

**2.a.4. Recognize** the basic principles of specific nutritional, behavioral and investigational plans within the community for the care and diagnosis of sports related disorders (trauma, medical, emergency, dermatological, psychological).

**2.a.5. Outline** the basic issues of patients' health and safety within legal and ethical principles regulating sports and used drugs and covering sports related situations.

**2.a.6. Identify** rising issues in the field sports medicine through clinical trials and scientific research with proper understanding of statistical basis.

**2.a.7. Discuss** developments of health care services to improve medical practice,

**2.a.8. Understand** different mechanical, behavioral and nutritional basis.

**2.a.9. Enumerate** most recent modalities used in pain control,

**2.a.10. List** the mechanisms of action of the musculoskeletal system .

**2.a.11. Define** the physiological and pathological basis for the body reactions to sports related situations.

2. ب - القدرات الذهنية :

### **2.b. Intellectual Skills:-**

**By the end of the program, the candidate should be able to:**

**2.b.1. Organize** questioning, clinical and investigational database to clinical problem solving based on proper interpretation of anatomical, mechanical, physiological, biochemical data.



**2.b.2. Generate** a list of initial differential diagnosis for each sports related problem or emergency.

**2.b.3. Analyze** posture of your case and detect mal-alignment,

**2.b.4. Design** plans interrelated with recent scientific statements in the field of sports Medicine,

**2.b.5. Design** nutritional, behavioral, rehabilitation programs for athletes.

**2.b.6. Explain** risk factors of disease or injury with attention to the most commonly prevalent problems, to determine strategies for appropriate prophylaxis.

**2.b.7. Interpret** situations through proper analysis, consultation and referral,

**2.b.8. Choose** most effective physical modality and evaluate response and differentiate between pharmacologically safe and dangerous products.

**2.b.9. Interpret** results of electromyography to diagnose musculoskeletal diseases,

**2.b.10. Discover** the abnormality in the immunological profile.

2. ج . مهارات مهنية وعملية :

**2.c. Practical and Clinical Skills:-**

***By the end of the program, the candidate should be able to:***

**2.c.1. Obtain** a complete and focused medical history and formulates specific clinical sheets suitable to record common medical and surgical problems in the field of Sports Medicine,

**2.c.2. Make a plan of** tests diagnosing sports related problems.

**2.c.3. Carry- out** first aid technical procedures; diagnostic and therapeutic in the field of sports Medicine,

**2.c.4. Make** evaluation for patients with different disabilities,

**2.c.5. Perform** intra-articular and soft tissue injections,

**2.c.6. Perform** electromyography and nerve conduction studies,



**2.c.7. Formulate** safe prescriptions of different types of drugs and avoid enhancing products.

**2.c.8. Propose** complete prescriptions of different types of intervention according to the current situation.

**2.c.9. Appraise** factors influencing the different body reactions,

**2.c.10. Assess** chronic injuries and trauma with appropriate technical procedures.

د.د . مهارات عامة و منتقلة:

**2.d. General and transferable skills:-**

***By the end of the program, the candidate should be able to:***

**2.d.1. Establish** life-long self-learning required for continuous professional development in the field of Sports Medicine,

**2.d.2. Use** sources of medical information and communication technology to remain up- to-date with advances in knowledge and practice,

**2.d.3. Retrieve** scientific information clearly in written, electronic and oral forms,

**2.d.4. Establish** effective interpersonal relationship to communicate ideas and arguments,

**2.d.5. Work** in interdisciplinary team according to rules and principles for assessment and within time-planned programs,

**2.d.6. Determine** personal learning needs.

3- المعايير الأكاديمية للبرنامج:

### 3- Academic Standards

**Academic Reference Standards (ARS) of Master Program of Sports Medicine. (ملحق 1)**



#### 4- العلامات المرجعية:

#### 4- Reference standards:

- المعايير القياسية لبرامج الدراسات العليا (درجة الماجستير) الصادرة عن الهيئة القومية لجودة التعليم والاعتماد (مارس 2009) (ملحق 2).
- مصفوفة مقارنة المعايير القياسية لبرامج الدراسات العليا (درجة الماجستير) الصادرة عن الهيئة القومية لجودة التعليم والاعتماد مع ال ARS. (ملحق 3)
- مصفوفة المضاهاة بين المعايير المتبناة لبرنامج ماجستير الطب الرياضي مع أهداف ونواتج تعلم البرنامج. (ملحق 4)

#### Curriculum structure and

#### 5 - هيكل ومكونات البرنامج contents:

#### أ - مدة البرنامج

#### a) Program duration: 4 semesters (2 years)

✚ 1<sup>st</sup> part: One Semester (6 months).

✚ 2<sup>nd</sup> part: 3 Semester (1.5 year).

✚ Thesis:

يبدأ تسجيلها بعد اجتياز الجزء الأول بنجاح وتجاوز مناقشتها الرسالة بعد مدة لا تقل عن فصلين دراسيين (سنة من تسجيلها) بشرط اجتياز الجزء الثاني بنجاح.

#### b) Program structure

ب

#### - هيكل البرنامج

- Total hours of program: 46 credit hours
- Theoretical: 34 credit hours
- Practical : 6 credit hour
- Thesis: 6 hours



المناهج			
الساعات المعتدة	الكود	المقررات الدراسية	
		المنهج	
٢	SM 601	مقرر علمي في التشريح التشريحي	مقررات طبية اساسية ٩ ساعة معتدة
٢	SM 602	مقرر في علم الفسيولوجيا التطبيقية	
١	SM 603	مقرر في علم الفارماكولوجيا	
١	SM 604	مقرر في المنشطات و القوانين لمنظمة ما	
١	SM 605	مقرر علمي في الكيمياء الحيوية فيما يخص الطب الرياضي	
١	SM 606	مقرر علمي في طرق البحث و الاحصاء	
١	SM 607	التغذية فيما يخص الطب الرياضي	
1	SM 608	مقرر علمي في العلوم السلوكية و علاقتها بالثب الرياضي	مقررات اختيارية اساسية اختيارية يختار منها علم واحد لساعة واحدة معتدة
١	SM 609	الرياضي المتحد الاولمبي	
١	SM 610	القوانين الدولية المنظمة للرياضة	
١	SM 611	مقدمة في علم ميكانيكا الحركة	
١٠	SM 612	مقرر في امراض الباطنة فيما يخص الطب الرياضي و يشمل القلب الرياضي - الجهاز الهضمي - غدد صماء - سكر - الاعصاب	الجزء الثاني
١٠	SM 613	مقرر علمي في اصابات الملاعب	
٦	SM 614	مقرر علمي في طب الطوارئ	
٢	SM 615	مقرر علمي في الجلدية فيما يخص الطب الرياضي	
٢	SM 616	مقرر علمي في الطب النفسي فيما يخص الطب الرياضي	
6			الرسالة
46			المجموع





c- Teaching plan

(ج) خطة التدريس

First part (one semester)

a- Compulsory courses:

Course Title	Course Code	Credit hours	No. of teaching hours/week	Total teaching hours (one semester)
			Lectures	
التشريح التطبيقي	SM 601	2	2	30
الفسولوجيا التطبيقية	SM 602	2	2	30
الفارماكولوجيا	SM 603	1	1	15
المنشطات والقوانين المنظمة لها	SM 604	1	1	15
الكيمياء الحيوية فيما يخص الطب الرياضي	SM 606	1	1	15
طرق البحث والإحصاء	SM 606	1	1	15
التغذية فيما يخص الطب الرياضي	SM 607	1	1	15
<b>Total</b>		<b>9</b>	<b>9</b>	<b>210</b>



مقررات اختيارية يختار الطالب منها مقرر واحد في الجزء الأول:

Course Title	Course Code	Credit hours	No. of teaching hours/week		Total teaching hours (one semester)
			Lectures		
العلوم السلوكية وعلاقتها بالطب الرياضي	SM 608	1	1		15
الرياضي المتحد الأولمبي	SM 609	1	1		15
القوانين الدولية المنظمة للرياضة	SM 610	1	1		15
مقدمة في علم ميكانيكا الحركة	SM 611	1	1		15

Second part (three semesters)

a- Compulsory courses:

Course Title	Course Code	No. of teaching hours/week			Total teaching hours (3 semesters)
		Theoretical	Clinical/Practical	Total	
أمراض الباطنة فيما يخص الطب الرياضي	SM 612	8.5	3	11.5	517.5
إصابات الملاعب	SM 613	8.5	3	11.5	517.5
مقرر في طب الطوارئ	SM 614	5	2	7	315



مقرر الجلدية فيما يخص الطب الرياضي	SM 615	1.5	1	2.5	112.5
مقرر الطب النفسي فيما يخص الطب الرياضي	SM 616	1.5	1	2.5	112.5
Total	-	25	10	35	1575

b- Elective courses: none.

c- Selective courses: none.

#### 6- محتويات المقررات (راجع توصيف المقررات) ملحق 6

- كود أو رقم المقرر :
- اسم المقرر :
- المحتويات: (طبقاً لما هو مذكور في اللائحة)

#### 7- متطلبات الالتحاق بالبرنامج

#### مادة (17) : يشترط في قيد الطالب لدرجة الماجستير

أ - أن يكون حاصلًا على درجة البكالوريوس في الطب والجراحة من إحدى جامعات جمهورية مصر العربية أو على درجة معادلة لها من معهد علمي معترف به ومعتمدة من المجلس الأعلى للجامعات، بحد أدنى تقدير جيد للتسجيل للماجستير و تقدير مقبول للتسجيل لدرجة للدبلوم.

- يسمح للحاصل على الدبلوم العالي وفقاً لنظام هذه اللائحة وبتقدير جيد على الأقل، بتسجيل رسالة لاستكمال درجة الماجستير بشرط ألا يكون قد مر أكثر من ثلاث سنوات على تاريخ حصوله على درجة الدبلوم من كلية الطب- جامعة بنها- وبغض النظر عن تقديره في درجة البكالوريوس وبعد موافقة مجلس القسم ومجلس الكلية.

- يسمح لطالب الماجستير بعد نجاحه في الجزء الأول والثاني ولم يستكمل الرسالة خلال مدة القيد المحددة باللائحة ان يتقدم بطلب استكفاء والحصول على شهادته دبلوم التخصص ، ويحق له التقدم لاستكمال درجة الماجستير مره اخرى خلال ثلاث سنوات من نجاحه في الجزء الثاني.



- ب – أن يكون قد أمضى السنة التدريبية أو ما يعادلها ( سنة الامتياز ).  
ج – موافقة جهة العمل أو مايفيد انه طبيب حر  
د – أن يتفرغ للدراسة لمدة سنة على الأقل فى الجزء الثانى ( فصلين دراسيين ).  
هـ – تسديد الرسوم ومصاريف التدريب واستهلاك الأجهزة

• **مادة (19) : مواعيد القيد وبدا الدراسة :**

أ - يكون التقدم للقيد بالماجستير مرة واحدة فى السنة خلال شهرى يوليو وأغسطس من كل عام .  
وتبدأ الدراسة لدرجة الدبلوم العالى / الماجستير فى شهر أكتوبر من كل عام.

**8 - القواعد المنظمة لإستكمال البرنامج :**

**مادة (29) :** يشترط فى الطالب لنيل درجة الماجستير فى أحد الفروع الإكلينيكية أو العلوم الطبية الأساسية:

أ- حضور متطلبات المقررات الدراسية والتدريبات الإكلينيكية والعملية والمعملية والميدانية بصفة مرضية طبقا للساعات المعتمدة على ألا تقل نسبة الحضور عن 75%، وفي حالة عدم استيفاء النسبة المذكورة يحرم الطالب من دخول الامتحان وإذا تكرر عدم الاستيفاء يلغى تسجيل الطالب.

ب- العمل كطبيب مقيم أصلى او منتدب (زائر) فى التخصص بالنسبة للعلوم الإكلينيكية.

ج – يشترط للطبيب الزائر العمل لمدة سنة على الأقل فى قسم التخصص بالكلية بالنسبة للعلوم الإكلينيكية.

د- النجاح فى امتحان الجزئين الأول والثانى من الدرجة.

هـ- اجتياز الطالب الدورات الآتية :

♦ الحاسب الآلى ( دورة فى مقدمة الحاسب - دورة فى تطبيقات الحاسب الآلى ) .

♦ (أخلاقيات البحث العلمي- منهجية البحث العلمي – الإحصاء الطبي ) وذلك مع تسجيل برتوكول الرسالة على أن تكون هذه الدورات من داخل جامعة بنها .



ط - اجتياز اختبار التوفيل بمستوى لا يقل عن 400 وحدة للماجستير وذلك قبل مناقشة الرسالة من أحد الجهات المعتمدة وفقا لمتطلبات الجامعة  
و- إعداد بحث في موضوع تقره الجامعة بعد موافقة مجلس القسم ومجلس الكلية ينتهى بإعداد رسالة تقبلها لجنة التحكيم مع نشر بحث مشتق من الرسالة في مجلة علمية معترف بها وذات موقع الكتروني ومسجلة بقائمة مجلات النشر بالكلية .

### 9- طرق وقواعد تقييم الملتحقين بالبرنامج

## 9 - Students Assessment Methods

م	الوسيلة	مخرجات التعلم المستهدفة
1	Written examination	To assess knowledge & understanding and intellectual skills. 2.a.1. → 2.a.11, 2.b.1. → 2.b.10.
2	Oral examination	To assess knowledge & understanding , intellectual skills and general & transferable skills. 2.a.1. → 2.a.11, 2.b.1. → 2.b.10, 2.d.1. → 2.d.6.
3	Practical examination	To assess knowledge & understanding, intellectual skills, practical & clinical skills and general & transferable skills. 2.a.1. → 2.a.11, 2.b.1. → 2.b.10, 2.c.1. → 2.c.10, 2.d.1. → 2.d.6.
4	Thesis discussion	To assess knowledge & understanding, intellectual skills, practical & clinical skills and general & transferable skills. 2.a.1. → 2.a.11, 2.b.1. → 2.b.10, 2.c.1. → 2.c.10, 2.d.1. → 2.d.6.



## Final exam:

الامتحانات							المناهج				
مجموع الدرجات	الكلينيكي الدرجة	علمي الدرجة	شغوي الدرجة	التحريري			الساعات المعتمدة	الكود	المقررات الدراسية		
				الدرجة	زمن الامتحان	عدد الأوراق			المنهج		
100	25	15	60	3	1	2	SM 601	مقرر علمي في التشريح التطبيقي	مقررات طبية أساسية 9 ساعة معتمدة	الجزء الأول	
100	25	15	60	3	1	2	SM 602	مقرر في علم الفسيولوجيا التطبيقية			
50		20	30	2	1	1	SM 603	مقرر في علم الفارماكولوجيا			
50		20	30	2	1	1	SM 604	مقرر في المنشطات و القوانين لمنظمة ما			
50		20	30	2	1	1	SM 605	مقرر علمي في الكيمياء الحيوية فيما يخص الطب الرياضي			
50		20	30	2	1	1	SM 606	مقرر علمي في طرق البحث و الاحصاء			
50		20	30	2	1	1	SM 607	التغذية فيما يخص الطب الرياضي			
50		20	30	2	1	1	SM 608	مقرر علمي في العلوم السلوكية و علاقتها بالطب الرياضي	مقررات اختيارية أساسية اختيارية يختار منها علم واحد لساعة واحدة معتمدة	الجزء الثاني	
50		20	30	2	1	1	SM 609	الرياضي المتحد الأولمبي			
50		20	30	2	1	1	SM 610	القوانين الدولية المنظمة للرياضة			
50		20	30	2	1	1	SM 611	مقدمة في علم ميكانيكا الحركة			
500	75	75	350	3	1	10	SM 612	مقرر في امراض الباطنة فيما يخص الطب الرياضي و يشمل القلب الرياضي - الجهاز الهضمي - غدد صماء - سكر - الاعصاب			
500	75	75	350	3	1	10	SM 613	مقرر علمي في اصابات الملاعب			
300	50	50	200	3	1	6	SM 614	مقرر علمي في طب الطوارئ			
100	25	25	50	2	1	2	SM 615	مقرر علمي في الجلدية فيما يخص الطب الرياضي			
100	25	25	50	2	1	2	SM 616	مقرر علمي في الطب النفسي فيما يخص الطب الرياضي			
							6				الرسالة
2000	250	50	1300				46				المجموع

**Third part: Thesis:** Pass or fail according to the committee decision and approved by department council, Faculty council and University council.



## 10 - طرق تقويم البرنامج:

### 10- Evaluation of Program:

Evaluator	Tools	sample
Internal evaluator (s) مقيم داخلي	Report	1-2 Report
External Evaluator (s) مقيم خارجي	Report	1-2 Report
Senior student (s) طلاب السنة النهائية	Interview, questionnaire s	all
Alumni الخريجون	Interview, questionnaire s	Not less than 50% from the last 3 years
Stakeholder (s) أصحاب العمل	Interview, questionnaire s	Representative samples from all sectors

### 11- استراتيجيات التعليم و التعلم علي مستوي البرنامج:

1. استراتيجية التعلم التفاعلي Interactive learning
2. استراتيجية التعليم المبني على المخرجات Outcome based learning
3. استراتيجية التعلم عن طريق دراسة الحالة Case based learning
4. التعلم باستخدام تكنولوجيا المعلومات E-learning

المسئول عن البرنامج :  
التاريخ :



## الملحقات

### - ملحق (1) :

**Academic Reference Standards (ARS) of Master Program of Sports Medicine, approved by department council, June 2013 and in faculty council September 2013.**

- ملحق (2): المعايير القياسية لبرامج الدراسات العليا (درجة الماجستير) الصادرة عن الهيئة القومية لجودة التعليم والاعتماد (مارس 2009) (ملحق 2).

- ملحق (3): مصفوفة مقارنة المعايير القياسية لبرامج الدراسات العليا (درجة الماجستير) الصادرة عن الهيئة القومية لجودة التعليم والاعتماد مع ال ARS. (ملحق 3)

- ملحق (4): مصفوفة مضاهاة المعايير الأكاديمية للبرنامج وأهداف و نواتج تعلم البرنامج.

- ملحق (5): مصفوفة المقررات مع أهداف و نواتج تعلم البرنامج.

**(Program courses and ILOs matrix)**

- ملحق (6): توصيف المقررات.



## ملحق (1)

### Academic Reference Standards (ARS) of Master Program of Sports Medicine. (ملحق 1)

جامعة بنها  
كلية الطب البشرى  
قسم الطب الرياضي

وثيقة المعايير الأكاديمية المرجعية لبرنامج الماجستير

### Academic Reference Standards (ARS) for Master Degree in Sports Medicine

#### 1. Graduate Attributes:

- 1-1 Proficient in application of the basics and methodologies of scientific research and the use of various tools.
- 1-2 Application of the analytical methods and its use in the area of sports medicine.
- 1-3 Application of specialized knowledge in the field of sports medicine and combine it with other related specialties.
- 1-4 Show an awareness of the current problems and modern visions in the field of Sports medicine.
- 1-5 Identifying professional problems and find solutions in the field of Sports medicine.
- 1-6 Specialized professional skills and the use of appropriate technological means to serve the professional practice.
- 1-7 Effective communication and the ability to lead teams.



1-8 Decision making and allow issues covering the common and important areas in the field of sports medicine and emergencies.

1-9 Employ available resources to achieve the highest benefit.

1-10 Be aware of his role in community development and provide patients with sports related problems solutions to modify their life.

1-11 Disposition reflecting the commitment to integrity, credibility and commitment to the rules of the profession.

1-12 Improve his academic and professional experience and be able to continuous learning.

## 2. **Academic Standards:**

### 2.1. **Knowledge and understanding:**

*By the end of Master program, the graduate should recognize and understand the followings:*

2.1.1 Theories, basic and specialized knowledge in the field of Sports medicine as well as related specialities.

2.1.2 Mutual influence between professional practice and its impacts on the environment.

2.1.3 Scientific developments in the field of Sports Medicine.

2.1.4 Moral and legal principles of professional practice in the area of Sports Medicine.

2.1.5 Principles and the basics of quality in professional practice in the area of Sports medicine.

2.1.6 Basics and ethics of scientific research.

### 2.2. **Intellectual skills:**

*By the end of Master program, graduate should be able to recognize the followings:*

2.2.1 Analyze and evaluate the information in the field of Sports Medicine and analogies to solve problems.



2.2.2 Solve specialized problems in the field of Sports Medicine with the unavailability of some data,

2.2.3 Linkage between the various knowledge to solve problems.

2.2.4 Conducting a research study or writing a systematic scientific study on a research problem.

2.2.5 Risk Assessment in professional practices in the field of Sports Medicine such as infection control, hazards of physiotherapy equipment.

2.2.6 Planning to improve the performance in the field of Sports Medicine with attendance of different workshops, conferences in different practical and clinical skills.

2.2.7 Decision-making in a variety of professional contexts.

### 2.3. **Practical/Professional skills**

*By the end of Master program, graduate should accept the followings skills:*

2.3.1 Mastering the basic and modern skills in the field of Sports Medicine.

2.3.2 Writing and evaluating professional reports.

2.3.3 Assessing existing methods and tools to in the field of Sports Medicine.

### 2.4. **Communication and transferable skills:**

**By the end of Master program, graduate should accept the following skills:**

2-4-1 Effective communication and interpersonal relationship to and arguments with other health care professionals.

2.4.2 Use of information technology and communication technology to remain up- to-date with advances in knowledge and practice.



2.4.3 Self-assessment and identify personal educational needs for continuous learning.

2.4.4 Use different sources to get the information and knowledge.

2.4.5 Put rules and indicators evaluating the performance of others.

2.4.6 Lead a team in professional familiar contexts.

2.4.7 Work in a team and time management.

2.4.8 Self and continuous learning for professional practice in the field of Sports medicine.



رئيس مجلس القسم  
ا.د. حسني عبد الرحمن



## ملحق (2)

### المعايير القياسية العامة ومواصفات الخريج

#### برامج الماجستير

#### 1- مواصفات الخريج

خريج برنامج الماجستير في أي تخصص يجب أن يكون قادرا على :

- 1-1 إجادة تطبيق أساسيات ومنهجيات البحث العلمي واستخدام أدواته المختلفة
- 2-1 تطبيق المنهج التحليلي واستخدامه في مجال التخصص
- 3-1 تطبيق المعارف المتخصصة ودمجها مع المعارف ذات العلاقة في ممارسته المهنية
- 4-1 إظهار وعيا بالمشاكل الجارية والرؤى الحديثة في مجال التخصص
- 5-1 تحديد المشكلات المهنية وإيجاد حلول لها
- 6-1 إتقان نطاق مناسب من المهارات المهنية المتخصصة واستخدام الوسائل التكنولوجية المناسبة بما يخدم ممارسته المهنية
- 7-1 التوصل بفاعلية والقدرة على قيادة فرق العمل
- 8-1 اتخاذ القرار في سياقات مهنية مختلفة
- 9-1 توظيف الموارد المتاحة بما يحقق أعلى استفادة والحفاظ عليها
- 10-1 إظهار الوعي بدوره في تنمية المجتمع والحفاظ على البيئة في ضوء المتغيرات العالمية والاقليمية
- 11-1 التصرف بما يعكس الالتزام بالنزاهة والمصداقية والالتزام بقواعد المهنة
- 12-1 تنمية ذاته أكاديميا ومهنيا وقادرا على التعلم المستمر

#### 2- المعايير القياسية العامة

##### 1-2 المعرفة والفهم :

بأنتهاء دراسة برنامج الماجستير يجب ان يكون الخريج على فهم ودراية بكل من :

- 1-1-2 النظريات والاساسيات المتعلقة بمجال التعلم وكذا في المجالات ذات العلاقة
- 2-1-2- التأثير المتبادل بين الممارسة المهنية وانعكاسها على البيئة
- 3-1-2 التطورات العلمية في مجال التخصص
- 4-1-2 المبادئ الاخلاقية والقانونية للممارسة المهنية في مجال التخصص
- 5-1-2 مبادئ واساسيات الجودة في الممارسة المهنية في مجال التخصص
- 6-1-2 اساسيات واخلاقيات البحث العلمي

##### 2-2 المهارات الذهنية :



- بانتها دراسة برنامج الماجستير يجب ان يكون الخريج قادرا على :
- 1-2-2 تحليل وتقييم المعلومات في مجال التخصص والقياس عليها لحل المشاكل
  - 2-2-2 حل المشاكل المتخصصة مع عدم توافر بعض المعطيات
  - 3-2-2 الربط بين المعارف المختلفة لحل المشاكل المهنية
  - 4-2-2 اجراء دراسة بحثية او كتابة دراسة علمية منهجية حول مشكلة بحثية
  - 5-2-2 تقييم المخاطر في الممارسات المهنية في مجال التخصص
  - 6-2-2 التخطيط لتطوير الاداء في مجال التخصص
  - 7-2-2 اتخاذ القرارات المهنية في سياقات مهنية متنوعة

### 3-2 المهارات المهنية

- بانتها دراسة برنامج الماجستير يجب ان يكون الخريج قادرا على :
- 1-3-2 اتقان المهارات المهنية الاساسية والحديثة في مجال التخصص
  - 2-3-2 كتابة وتقييم التقارير المهنية
  - 3-3-2 تقييم الطرق والادوات القائمة في مجال التخصص

### 4-2 المهارات العامة والمنتقلة :

- بانتها دراسة برنامج الماجستير يجب ان يكون الخريج قادرا على :
- 1-4-2 التواصل الفعال بأنواعه المختلفة
  - 2-4-2 استخدام تكنولوجيا المعلومات بما يخدم الممارسة المهنية
  - 3-4-2 التقييم الذاتي وتحديد احتياجاته التعليمية
  - 4-4-2 استخدام المصادر المختلفة للحصول على المعلومات والمعارف
  - 5-4-2 وضع قواعد ومؤشرات تقييم اداء الآخرين
  - 6-4-2 العمل في فريق سياقات مهنيه مختلفة
  - 7-4-2 ادارة الوقت بكفاءة
  - 8-4-2 التعلم الذاتي والمستمر.



### ملحق (3)

#### - مواصفات الخريج:

مواصفات الخريج بالمعايير الأكاديمية للبرنامج	مواصفات الخريج بالمعايير القياسية للدراسات العليا (درجة الماجستير)
1-1	خريج برنامج الماجستير فى اى تخصص يجب ان يكون قادرا على : 1-1 إجادة تطبيق أساسيات ومنهجيات البحث العلمى واستخدام أدواته المختلفة.
1-2	2-1 تطبيق المنهج التحليلى واستخدامه فى مجال التخصص.
1-3	3-1 تطبيق المعارف المتخصصة ودمجها مع المعارف ذات العلاقة فى ممارسته المهنية.
1-4	4-1 إظهار وعيا بالمشاكل الجارية والرؤى الحديثة فى مجال التخصص.
1-5	5-1 تحديد المشكلات المهنية وإيجاد حلول لها.
1-6	6-1 إتقان نطاق مناسب من المهارات المهنية المتخصصة واستخدام الوسائل التكنولوجية المناسبة بما يخدم ممارسته المهنية.
1-7	7-1 التوصل بفاعلية والقدرة على قيادة فرق العمل.
1-8	8-1 اتخاذ القرار فى سياقات مهنية مختلفة.
1-9	9-1 توظيف الموارد المتاحة بما يحقق أعلى استفادة والحفاظ عليها.
1-10	10-1 إظهار الوعى بدوره فى تنمية المجتمع والحفاظ على البيئة فى ضوء المتغيرات العالمية والاقليمية .
1-11	11-1 التصرف بما يعكس الالتزام بالنزاهة والمصداقية والالتزام بقواعد المهنة.
1-12	12-1 تنمية ذاته أكاديميا ومهنيا وقادرا على التعلم المستمر.



أ - المعرفة والفهم:

A- Knowledge and Understanding:

المعايير الأكاديمية للبرنامج	المعايير القياسية العامة (Generic) لبرامج الدراسات العليا (درجة الماجستير)
2.1.1	بأنتهاء دراسة برنامج الماجستير يجب ان يكون الخريج على فهم ودراية بكل من: 1-1-2 النظريات والاساسيات المتعلقة بمجال التعلم وكذا فى المجالات ذات العلاقة.
2.1.2	2-1-2- التأثير المتبادل بين الممارسة المهنية وانعكاسها على البيئة.
2.1.3	3-1-2 التطورات العلمية فى مجال التخصص.
2.1.4	4-1-2 المبادئ الاخلاقية والقانونية للممارسة المهنية فى مجال التخصص
2.1.5	5-1-2 مبادئ واساسيات الجودة فى الممارسة المهنية فى مجال التخصص.
2.1.6	6-1-2 اساسيات واخلاقيات البحث العلمى.

ب - القدرات الذهنية

B- Intellectual Skills:

المعايير الأكاديمية للبرنامج	المعايير القياسية العامة (Generic) لبرامج الدراسات العليا (درجة الماجستير)
2.2.1	بأنتهاء دراسة برنامج الماجستير يجب ان يكون الخريج قادرا على : 1-2-2 تحليل وتقييم المعلومات فى مجال التخصص والقياس عليها لحل المشاكل.
2.2.2	2-2-2 حل المشاكل المتخصصة مع عدم توافر بعض المعطيات.
2.2.3	3-2-2 الربط بين المعارف المختلفة لحل المشاكل المهنية.
2.2.4	4-2-2 اجراء دراسة بحثية او كتابة دراسة علمية منهجية حول مشكلة بحثية.
2.2.5	5-2-2 تقييم المخاطر فى الممارسات المهنية فى مجال التخصص.



2.2.6	6-2-2 التخطيط لتطوير الاداء فى مجال التخصص.
2.2.7	7-2-2 اتخاذ القرارات المهنية فى سياقات مهنية متنوعة.

ج - مهارات مهنية وعملية :

**C- Clinical and professional Skills:**

المعايير الأكاديمية للبرنامج	المعايير القياسية العامة (Generic) لبرامج الدراسات العليا (درجة الماجستير)
2.3.1	بانتهاؤ دراسة برنامج الماجستير يجب ان يكون الخريج قادرا على : 1-3-2 اتقان المهارات المهنية الاساسية والحديثة فى مجال التخصص.
2.3.2	2-3-2 كتابة وتقييم التقارير المهنية.
2.3.3	3-3-2 تقييم الطرق والادوات القائمة فى مجال التخصص.



د . مهارات عامة :

**D- General and Transferable Skills:**

المعايير الأكاديمية للبرنامج	المعايير القياسية العامة (Generic) لبرامج الدراسات العليا (درجة الماجستير)
2-4-1	بانهاء دراسة برنامج الماجستير يجب ان يكون الخريج قادرا على: 1-4-2 التواصل الفعال بأنواعه المختلفة.
2.4.2	2-4-2 استخدام تكنولوجيا المعلومات بما يخدم الممارسة المهنية.
2.4.3	3-4-2 التقييم الذاتي وتحديد احتياجاته التعليمية.
2.4.4	4-4-2 استخدام المصادر المختلفة لحصول على المعلومات والمعارف.
2.4.5	5-4-2 وضع قواعد ومؤشرات تقييم اداء الآخرين.
2.4.6	6-4-2 العمل فى فريق سياقات مهنية مختلفة.
2.4.7	7-4-2 ادارة الوقت بكفاءة.
2.4.8	8-4-2 التعلم الذاتى والمستمر.



#### ملحق (4)

### مصفوفة مضاهاة المعايير الأكاديمية للبرنامج وأهداف ونواتج تعلم البرنامج

أهداف البرنامج	المعايير الأكاديمية للبرنامج (مواصفات الخريج)
1.6.	1.1.
1.3.	1.2.
1.1.	1.3.
1.2.	1.4.
1.4.	1.5.
1.5.	1.6.
1.7.	1.7.
1.4.	1.8.
1.4.	1.9..
1.7.	1.10.
1.7.	1.11.
1.5.	1.12..



نواتج تعلم البرنامج											المعايير الأكاديمية للبرنامج
المعرفة و الفهم											
2.a.11	2.a.10	2.a.9	2.a.8	2.a.7	2.a.6	2.a.5	2.a.4	2.a.3	2.a.2.	2.a.1.	
✓	✓	✓	✓				✓		✓	✓	<i>By the end of Master program, the candidate should recognize and understand the followings:</i> 2.1.1 2.1.2 2.1.3 2.1.4 2.1.5 2.1.6
				✓							
					✓						
						✓					
				✓				✓			
					✓						

نواتج تعلم البرنامج											المعايير الأكاديمية للبرنامج
Intellectual skills											
2.b.10	2.b.9	2.b.8	2.b.7	2.b.6	2.b.5	2.b.4	2.b.3	2.b.2.	2.b.1.		
✓	✓		✓				✓	✓	✓		<i>By the end of Master program, candidate should be able to recognize the followings:</i> 2.2.1 2.2.2
		✓	✓		✓		✓	✓	✓		



			√				√			2.2.3
							√			2.2.4
				√	√			√		2.2.5
							√			2.2.6
	√	√			√					2.2.7

نواتج تعلم البرنامج										المعايير الأكاديمية للبرنامج المهارات المهنية
Practical/Professional skills										
2.c.10	2.c.9	2.c.8	2.c.7	2.c.6	2.c.5	2.c.4	2.c.3	2.c.2.	2.c.1.	
				√	√	√	√	√	√	<i>By the end of Master program, candidate should accept the followings skills:</i> 2.3.1
		√	√	√						2.3.2
√	√						√	√		2.3.3

نواتج تعلم البرنامج										المعايير الأكاديمية للبرنامج
General and transferable skill										



2.d.6	2.d.5	2.d.4	2.d.3	2.d.2.	2.d.1.	المهارات العامة والمنتقلة
		√				By the end of Master program, candidate should accept the following skills: 2-4-1
				√		2.4.2
√					√	2.4.3
			√	√		2.4.4.
	√	√				2.4.5.
	√	√				. 2.4.6.
	√	√				2.4.7 .
					√	2.4.8.

### ملحق (5)

مصفوفة المقررات مع أهداف ونواتج تعلم البرنامج

(Program courses and ILOs matrix)



ILOs		Knowledge & Understanding 2.a.										
Courses & Codes		1	2	3	4	5	6	7	8	9	10	11
التشريح التطبيقي	SM 601											
الفسولوجيا التطبيقية	SM 602											
الفارماكولوجيا	SM 603											
المنشطات والقوانين المنظمة لها	SM 604											
الكيمياء الحيوية فيما يخص الطب الرياضي	SM 606											
طرق البحث والإحصاء	SM 605											
التغذية فيما يخص الطب الرياضي	SM 607											
العلوم السلوكية وعلاقتها بالطب الرياضي	SM 608											
الرياضي المتحد الأولمبي	SM 609											
القوانين الدولية المنظمة للرياضة	SM 610											
مقدمة في علم ميكانيكا الحركة	SM 611											
أمراض الباطنة فيما يخص الطب الرياضي	SM 612											
إصابات الملاعب	SM 613											
مقرر في طب الطوارئ	SM 614											
مقرر الجلدية فيما يخص الطب الرياضي	SM 615											
مقرر الطب النفسي فيما يخص الطب	SM 616											



الرياضي

ILOs		Intellectual Skills									
Courses & Codes		2.b.									
		1	2	3	4	5	6	7	8	9	10
التشريح التطبيقي	SM 601										
الفسولوجيا التطبيقية	SM 602										
الفارماكولوجيا	SM 603										
المنشطات والقوانين المنظمة لها	SM 604										
الكيمياء الحيوية فيما يخص الطب الرياضي	SM 606										
طرق البحث والإحصاء	605SM										
التغذية فيما يخص الطب الرياضي	SM 607										
العلوم السلوكية وعلاقتها بالطب الرياضي	SM 608										
الرياضي المتحد الأولمبي	SM 609										
القوانين الدولية المنظمة للرياضة	SM 610										
مقدمة في علم ميكانيكا الحركة	SM 611										
أمراض الباطنة فيما يخص الطب الرياضي	SM 612										
إصابات الملاعب	SM 613										
مقرر في طب الطوارئ	SM 614										
مقرر الجلدية فيما يخص الطب	SM 615										



الرياضي													
مقرر الطب النفسي فيما يخص الطب الرياضي	SM 616												

Courses & Courses	ILOs	Practical & Clinical Skills 2.c.											
		1	2	3	4	5	6	7	8	9	10		
التشريح التطبيقي	SM 601												
الفسولوجيا التطبيقية	SM 602												
الفارماكولوجيا	SM 603												
المنشطات والقوانين المنظمة لها	SM 604												
الكيمياء الحيوية فيما يخص الطب الرياضي	SM 606												
طرق البحث والإحصاء	605SM												
التغذية فيما يخص الطب الرياضي	SM 607												
العلوم السلوكية وعلاقتها بالطب الرياضي	SM 608												
الرياضي المتحد الأولمبي	SM 609												
القوانين الدولية المنظمة للرياضة	SM 610												
مقدمة في علم ميكانيكا الحركة	SM 611												
أمراض الباطنة فيما يخص الطب الرياضي	SM 612												
إصابات الملاعب	SM 613												
مقرر في طب الطوارئ	SM 614												



مقرر الجلدية فيما يخص الطب الرياضي	SM 615																			
مقرر الطب النفسي فيما يخص الطب الرياضي	SM 616																			

ILOs		General & transferable					
Courses & Codes		2.d.					
		1	2	3	4	5	6
التشريح التطبيقي	SM 601						
الفسيولوجيا التطبيقية	SM 602						
الفارماكولوجيا	SM 603						
المنشطات والقوانين المنظمة لها	SM 604						
الكيمياء الحيوية فيما يخص الطب الرياضي	SM 606						
طرق البحث والإحصاء	605SM						
التغذية فيما يخص الطب الرياضي	SM 607						
العلوم السلوكية وعلاقتها بالطب الرياضي	SM 608						
الرياضي المتحد الأولمبي	SM 609						
القوانين الدولية المنظمة للرياضة	SM 610						
مقدمة في علم ميكانيكا الحركة	SM 611						
أمراض الباطنة فيما يخص الطب الرياضي	SM 612						
إصابات الملاعب	SM 613						
مقرر في طب الطوارئ	SM 614						
مقرر الجلدية فيما يخص الطب الرياضي	SM 615						



مقرر الطب النفسي فيما يخص الطب الرياضي

SM 616





ملحق (6): توصيف المقررات

**Course Specifications**

First part
التشريح التطبيقي
الفسولوجيا التطبيقية
الفارماكولوجيا
المنشطات والقوانين المنظمة لها
الكيمياء الحيوية فيما يخص الطب الرياضي
طرق البحث والإحصاء
التغذية فيما يخص الطب الرياضي
اختياري
العلوم السلوكية وعلاقتها بالطب الرياضي
الرياضي المتحد الأولمبي
القوانين الدولية المنظمة للرياضة
مقدمة في علم ميكانيكا الحركة
Second part
أمراض الباطنة فيما يخص الطب الرياضي
إصابات الملاعب
مقرر في طب الطوارئ
مقرر الجلدية فيما يخص الطب الرياضي
مقرر الطب النفسي فيما يخص الطب الرياضي



جامعة بنها  
كلية الطب البشرى  
قسم التشريح الأدمى وعلم الأجنة

توصيف مقرر التشريح التطبيقي  
لماجستير طب الرياضى

بيانات المقرر	
الفرقة / المستوى : جزء أول	اسم المقرر : مقرر علمي في التشريح التطبيقي الرمز الكودي : SM 601
	التخصص : عدد الوحدات الدراسية : نظري 2 credit hours
<i>Understand the anatomy and surface landmarks of major joints and soft tissue structures, Apply knowledge of the appropriate system structures relevant to Sports medicine, Succeed to make a proper diagnosis of different musculoskeletal disorders of nerves, muscles, joints and central nervous system. Improve the standards of knowledge by self-education as a researcher and specialist in the field of Sports Medicine</i>	
المستهدف من تدريس المقرر :	
<i>By the end of the course, the student should be able to:</i>	
2.a.1. List different joint types in human body (upper limb, lower limb and vertebral column), 2.a.2. Describe the anatomical structure and biomechanics of different joint types (stability and movements), 2.a.3. Outline nerves and plexuses of the upper and lower limb, 2.a.4. Define the origin and insertion of the muscles of upper, lower limbs and back, 2.a.5. Illustrate cranial nerves, 2.a.6. Discuss cortical areas of the brain and define pyramidal tract & extra pyramidal tract	أ- المعرفة والفهم:
Evaluate the outcome of surgical correction, Correlate basic science of anatomy to connective tissue, bone, joint, and muscle diseases, Classify sites of the nerve compression, Interpret physical tests to evaluate musculoskeletal disorders, Analyze biomechanical principles of joint function in the prescription of orthoses and prostheses, Interpret sites of neurological injuries.	ب- المهارات الذهنية:



<p>By the end of the course, students should be able to:</p> <p>2.c.1. <i>Demonstrate</i> the dermatomal and myotomal supply of the body.</p> <p>2.c.2. <i>Draw</i> the accurate surface marking and anatomical landmarks needed for injecting joints and soft tissue rheumatic disorders.</p> <p>2.c.3. <i>Make</i> algorithm in calculating the patient age.</p> <p>2.c.4. <i>Practice</i> how to correct different alignment.</p> <p>2.c.5. <i>Assess</i> the progress of different deformities</p> <p>2.c.6. <i>Prescribe</i> examination protocols in evaluating musculoskeletal disorders.</p>	<p>ج - المهارات المهنية الخاصة بالمقرر:</p>
<p>use information and communication technology effectively in the field of anatomy</p>	<p>د - المهارات العامة: محتوى المقرر:</p>



Subject	Lectures (hrs)	Small group (hrs)	Total (hrs)	% of total	ILOs
<u>1) GENERAL ANATOMY</u> <b>Bones :- Functions , classifications , structure of living bone , general features , growth and blood supply</b> <b>-Cartilages : general features , types</b> <b>-Joints :classifications (fibrous , cartilaginous , synovial ) , types of synovial joints , structure of synovial joints , movements</b> <b>-Skeletal muscles : characters , functions</b> <b>-Fascia : types , characters , derivatives</b> <b>-Spinal nerves : classification , origin ,course and structure</b>	2	1	3	10%	2.a.1, 2.a.2,, 2.a.3,, 2.a.4,, 2.a.5, 2.b.2, 2.b.3,2.c.1,2.c.2, 2.c.3
<u>2) NECK AND TRUNK</u> <b>-Muscles of facial expression , muscles of mastication and tempromandibular joint (T.M.J.)</b> <b>-Muscles of neck :suprahyoid&amp; Infrahyoid muscles , scalene muscles, prevertebral muscles , muscles of back of neck</b> <b>-Joints , ligaments and movements of vertebral column</b> <b>-Nerves of head and neck :-Cranial nerves ,cervical plexus</b>	4	3	7	24%	2.a.3,2.a.6 2.b.1. , 2.c.4, 2.c.6., 2.d.1, 2.b.3
<u>3) UPPER, LOWER LIMBS AND THORAX</u> <b>Upper limb :-Muscles of: pectoral region , shoulder ,back of trunk ,arm ,forearm and hand</b> <b>-Joints ,ligaments and movements of upper limb</b> <b>-Nerves : brachial plexus ,nerves of upper limb</b>					
<b>*Lower limb :-Muscles of : front medial and back of the</b>					



Lectures (On line lectures : BU-LMS benha university learning management system)  
Tutorials  
Practical

مصفوفة طرق التدريس مع نواتج التعلم لمقرر  
التشريح التطبيقي

أساليب  
التعليم  
والتعلم

طرق التدريس			نواتج التعلم للمقرر	
Practical	Tutorial	Modified Lectures		
■	■	■	2.a.1	المعرفة والفهم
■	■	■	2.a.2	
■	■	■	2.a.3	
■	■	■	2.a.4	
■	■	■	2.a.5	
■	■	■	2.a.6	
■	■	■	2.b.1	المهارات الذهنية
■	■	■	2.b.2	
■	■	■	2.b.3	
■	■	■	2.b.4	
■	■	■	2.b.5	
■	■	■	2.b.6	
■			2.c.1	المهارات المهنية
■			2.c.2	
■			2.c.3	
■			2.c.4	
■			2.c.5	
■			2.c.6	
■			2.d.1	المهارات العامة

6- تقويم الطلاب :



**Written exams:** Assess knowledge & understanding and intellectual skills.  
**Structured oral exams:** to assess knowledge and understanding, intellectual, professional and general and transferable skills.

أ-  
الأساليب  
المستخدمة

مصفوفة طرق التقويم مع نواتج التعلم لمقرر  
التشريح التطبيقي

Practical	طرق التقويم		نواتج التعلم للمقرر	
	Structured Oral Exam	Written exam		
	■	■	2.a.1	المعرفة والفهم
	■	■	2.a.2	
	■	■	2.a.3	
	■	■	2.a.4	
	■	■	2.a.5	
	■	■	2.a.6	
	■	■	2.b.1	المهارات الذهنية
	■	■	2.b.2	
	■	■	2.b.3	
	■	■	2.b.4	
	■	■	2.b.5	
	■	■	2.b.6	
	■	■	2.c.1	المهارات المهنية
■	■	■	2.c.2	
■	■	■	2.c.3	
■	■	■	2.c.4	
■	■	■	2.c.5	
■	■	■	2.c.6	
■	■	■	2.d.1	المهارات العامة

Final exam at May or November

ب-  
التوقيت



Examination :      Marks allocated a- Written: 60 b- Oral: 15	ج- توزيع الدرجات
7- قائمة الكتب الدراسية والمراجع :	
Lectures notes	أ- مذكرات
Gray's Anatomy 42nd Edition <b>The Anatomical Basis of Clinical Practice</b> <b>Editor in Chief: Susan Standing</b> <b>eBook ISBN: 9780702077104</b> <b>Hardcover ISBN: 9780702077050</b> <b>Paperback ISBN: 9780702077067</b> <b>Imprint: Elsevier</b> <b>Published Date: 21st October 2020</b> <b>Page Count: 1606</b>  Standing, S. (Ed.). (2020). <i>Gray's anatomy e-book: the anatomical basis of clinical practice</i> . Elsevier Health Sciences.	ب- كتب ملزمة
Hole's Human Anatomy & Physiology 15th Edition by David Shier (Author), Jackie Butler (Author), Ricki Lewis (Author)  Hole, J. W., Shier, D., Butler, J., & Lewis, R. (2019). <i>Hole's essentials of human anatomy &amp; physiology</i> . Boston.	ج- كتب مقترحة
<a href="https://www.coursera.org/specializations/anatomy">https://www.coursera.org/specializations/anatomy</a>	د - دوريات علمية أو نشرات



### Course Contents/ILOs Matrix

Course Contents	2.a. Knowledge and understanding						2.b. Intellectual Skills						2.c.3. Practical & Clinical skills						2d. General and
	2.a.1	2.a.2	2.a.3	2.a.4	2.a.5	2.a.6	2.b.1	2.b.2	2.b.3	2.b.4	2.b.5	2.b.6	2.c.1	2.c.2	2.c.3	2.c.4	2.c.5	2.c.6	2.d.1
<b>1) General anatomy</b>	x	x	x	x	x			x	x				x		x				
2) Head and neck Disease			x			X	x	x								x		x	x
<b>3) UPPER, LOWER LIMBS AND THORAX</b>				x			x	x	x	x	x						x	x	x
<b>4) NEUROANATOMY</b>			x					x			x	X							

رئيس مجلس القسم

العلمي

ا.د. عصام محمد

عبد



Benha university



Faculty of Medicine.

Department of sport medicine.

## Course Specifications

مقرر فسيولوجيا الرياضة

**Course title: Master of Sports Medicine (SM 500)**

**Code: SM 602**

**Department offering the course: PHYSIOLOGY DEPARTMENT**

### A- Basic Information

- **Allocated marks: 100 marks.**
- Course duration: 15 weeks

### B- Professional Information

#### 1 – Overall Aims of Course

1. Provide postgraduate students with the scientific knowledge about the concept of sport physiology.
2. Provide detailed data about the effects of exercise on different body systems.
3. Provide sufficient data on the practical application of skills and knowledge required by today's sports and exercise
4. Evaluate the effects of activity and the environment on bioenergetics, fatigue and recovery.
5. Provides the good stepping-stone to a professional career.



6. Provide postgraduates with an opportunity to formulate research knowledge and presentation skills in these areas.

## 2 – Intended learning outcomes of course (ILOs)

### 1.a- Knowledge and understanding:

*By the end of this course, postgraduates should be able to:*

**1.a1-** develop a deeper understanding of the physiological processes relevant to sport, exercise, and performance.

**1.a2-** Memorize important physiological definitions and laws in relation to exercise.

**1.a4-** understand the different mechanisms of homeostasis and how to use it in sport physiology.

**1.a5-** provide excellence in medical education, research in relation to sport physiology.

**1.a6-** understand the professional applications of a MD Certificate in Applied Sport and Exercise Physiology.

### 1.b- Intellectual skills:

*By the end of this course, students should be able to:*

**1. b.1-** Describe the normal structure and function of the skeletal muscle.

**1.b2-** Identify the physiology of muscle contraction and its deviations .

**1.b.3-** Translate the consequences of different factors on muscle contraction.

**1. b.4-** Illustrate simple muscle twitch in the form of simplified diagrams with complete data on it.

**1. b.5-** Interconnect different branches of physiology to sport physiology.

**1.b.6-**Analyze and summarize updated physiological information related to sport physiology.



### **1.c- practical skills:**

*By the end of this course, students should be able to:*

- 1.c.1- Perform muscle biopsy techniques to study different phases of muscle contraction.
- 1.c.2- interpret different laboratory tests to detect effect of exercise on metabolism.
- 1.c.3- asses effect of exercise on respiratory system.
- 1.c.4- record cardiovascular parameters under different types of exercise.
- 1.c.5- asses skeletal muscle contraction and factors affecting it.
- 1.c.6- detect the effect of muscle loading

### **1. d.- General and transferable skills**

*By the end of this course, students should be able to:*

- 1. d.1-** show discipline and appropriate manners when working in a lab and cooperation with his colleges
- 1. d.2-** respect towards general property and how to handle learning facilities with care.
- 1. d.3-** deal properly and cautiously in a lab.
- 1. d.4-** Use the sources of biomedical information to remain current with the advances in knowledge & practice concerning sport physiology.
- 1. d.5-** Perform tests showing the molecular, biochemical, and cellular mechanisms that are important in maintaining the body's homeostasis during exercise.

## **3- Contents**



## Contents

### **1- practical**

- 1-Muscle functioning testing ( including isometric , isokinetic and isotonic muscle function tests )
- 2- Electromyographic ( EMG ) analysis of muscle function
- 3- Muscle biopsy techniques and interpretation of results
- 4- Lung function testing at rest and during exercise
- 5- Exercise testing to assess the cardiovascular response to exercise and analysis of oxygen consumption

## ILOs

- a-describe and define different phases of simple muscle twitch.
- b- What are the effects of warming, cooling, fatigue on muscle contraction.
- c-discuss effect of muscle loading on simple muscle twitch
- D-Explain the effect of exercise on lung volumes and capacities
- e- explain the effect of exercise on HR, COP and ABP
- f- explain the effect of exercise on blood glucose,lipid profile and calcium levels
- g- explain the effect of exercise on blood levels of endocrine hormones



<b><u>Lectures</u></b>	
Structural properties of the muscle	1-Describe structure of skeletal muscle 2- Explain muscle energetic, mechanics and physiological performance. 3-enumerate and compare between types of skeletal muscle fibers
Physiology of muscle contraction	1-discuss neuromuscular junction 2-explain excitation contraction coupling 3-enumerate factors affecting contractility 4- compare between types of contraction
muscle metabolism	1- discuss muscle metabolism during rest and during contraction 2- Explain the phosphagen system 3- compare between aerobic and anaerobic metabolism during exercise 4- explain fueling the energy systems
skeletal muscle blood flow and muscle fatigue	1- explain the characteristics of skeletal muscle blood flow 2- discuss the regulation of skeletal muscle blood flow 3-define and enumerate types of muscle fatigue 4- explain physical fitness
metabolic adaptation to training	1- Explain metabolic rate 2-Explain respiratory quotient 3-discuss thermoregulatory system during exercise 4-explain oxygen debt 5- explain VO <sub>2</sub> Max 6-discuss heat stroke
EMG activity and muscle function	Medical uses of EMG Technique of EMG Surface and intramuscular EMG recording electrodes Limitations of EMG needle Normal and abnormal finding of EMG



## Neurophysiology of movement

The motor neuronal outputs from cortex  
The motor neuronal outputs from spinal cord  
Neurotransmitters in motor neurons  
Important Electrolytes needed for motor function





Gas exchange	<ol style="list-style-type: none"><li>1-Enumerate properties of respiratory membrane</li><li>2- enumerate properties of respiratory gases</li><li>3- explain ventilation perfusion ratio</li></ol>
Oxygen transport by blood	<ol style="list-style-type: none"><li>1-explain forms of oxygen transport by blood</li><li>2- discuss oxygen dissociation curve</li></ol>
Carbon dioxide transport in the blood	<ol style="list-style-type: none"><li>1-explain forms of CO<sub>2</sub> transport by blood</li><li>2- discuss CO<sub>2</sub> dissociation curve</li></ol>
Pulmonary function testing	<ol style="list-style-type: none"><li>1-Explain static tests</li><li>2- explain dynamic tests</li></ol>
Ventilatory response during exercise	<ol style="list-style-type: none"><li>1-pulmonary ventilation during exercise</li><li>2-pulmonary perfusion during exercise</li><li>3- gas exchange during exercise</li><li>4-respiratory adaptation to training</li></ol>
Control of breathing	<ol style="list-style-type: none"><li>1-Enumerate respiratory centers</li><li>2-nervous regulation of respiration</li><li>3-chemical regulation of respiration</li></ol>
Cardiac output	<ol style="list-style-type: none"><li>1-define COP</li><li>2- enumerate variations of COP</li><li>3-Explain regulation of COP</li></ol>



Arterial blood pressure	1-define ABP 2- enumerate variations of ABP 3-Explain regulation of ABP
cardiovascular response to exercise	1-discuss effect of exercise on COP 2-discuss effect of exercise on ABP 3-Explain adaptation of cardiovascular system to exercise 4- The cardiovascular response to exercise in different environmental conditions such as altitude and heat
Cardiac reserve and cardiac work	Heart rate reserve Preload(EDV) reserve Afterload reserve ESV reserve Cardiac hypertrophy Venous oxygen reserve
Control of heart function at rest and during exercise	Intrinsic mechanism Nervous control Cardiovascular reflexes
Myocardial adaptation to exercise training	COP adaptation heart rate adaptation O2 consumption adaptation

#### **4– Teaching and learning methods:**

##### **4.1.methods used**

4.1-1.General lectures

4.1.2.Practical sessions in the department lab.

4,1.3.-seminares

4,1.4-confrences



#### 4.1.5 Thesis and review articles

### 5- Student assessment methods:

#### 5-a) Assessment TOOLS:

مخرجات التعلم المستهدفة	الوسيلة	م
To assess knowledge & understanding, intellectual skills.2.a.1.....2.a.5, 2.b.1, .....2.b.9	Written examination	
To assess knowledge & understanding, intellectual skills & General & transferable skills1.a.1.....1.a.5 1.b.1, .....1.b.4, 1.d.1.....1.d.5	Oral examination	
To assess practical skills: 1.c.1.....1.c.3	Practical examination	

#### 5-b) TIME SCHEDULE:

Exam	Time
5- Final exam	April or October

Examination	Marks allocated	% of Total Marks
2- Final exam:		
a- Written	60	60%
b- practical	25	25%
c- Oral	15	15%
<b>Total</b>	<b>100</b>	<b>100%</b>

#### **FORMATIVE ASSESSMENT:**

- Student knows his marks after the Formative exam

#### 5-E) Examination description:

Examination	Type	Description
Final Examination	1. Written	Written paper composed of short essay-type questions, long essay.



	2. Oral	One oral examination station with 2 staff members (10-15 minutes: 4-5 questions)
	3- practical	OSCE

## 6- List of references

- 6.1- John E Hall (2006): Guyton & hall physiology review. Eleventh edition.
- 6.2- Poul-Erik Paulev (2008): Medical Physiology And Pathophysiology Essentials and clinical problems.
- 6.3- William F Ganong (2003): review of medical physiology. Twenty – first edition.
- 6.4- John E Hall (2012): guyton&hall text book of medical physiology.twelfth edition.
- 6.5- Sembulingam K & Prema Sembulingam (2003): essentials of medical physiology .fourth edition.
- 6.6- Periodicals, Web sites, ...etc

[www.jap.physiology.org](http://www.jap.physiology.org).

[www.physiologyonline.physiology.org/cgi/content](http://www.physiologyonline.physiology.org/cgi/content)

## 7- Facilities required for teaching and learning

1. Data show.
2. Overhead projector.
3. postgraduate laboratories with their equipments.

**Course coordinator:** Assistant prof. /Abeer Ahmed Shoman

**Head of Department:**

**Date:**



*Benha University. Faculty of Medicine.  
Department of Pharmacology*

### **COURSE SPECIFICATIONS**

**Course title: Master Of Science( Pharmacology ) Sports Medicine .**

**Code: SM 603**

- Department offering the course: Pharmacology Department

#### **A) Basic information:**

- Allocated marks: 50 marks .
- Course duration: 15 weeks of teaching.

#### **B- Professional Information**

##### **1- Overall aims of course**

- 1.1. To provide the basic knowledge about commonly used groups of drugs affecting different body systems.
- 1.2. To provide drugs implications in therapy of diseases and health promotion.
- 1.3. To enable students to understand the safe use of drugs as regards adverse effects, contraindications and drug interactions.

##### **2- Intended learning outcomes of course (ILOs)**

##### **2.a- Knowledge and understanding:**

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

- 2.a.1.** Students will be able to describe the behavior & functional



evolution of drugs from the moment they are administered until they are eliminated from the body.

**2.a.2.** Students will be able to describe the basic pharmacological characteristics of the principal therapeutic drugs for various conditions & their mechanisms of action.

**2.a.3.** Students will acquire & use the appropriate pharmacological terminology & expressions in the clinical setting .

**2.a.4.** Students can identify the indications , purpose , pharmacological interactions , adverse effects & drug intoxication levels for each medication as well as perform a benefit risk analysis .

**2.a.5.** Students recognize & know how to correctly manage the medications they will administer , their presentation forms , routes , proper dosages & administration intervals .

**2.a.6.** Students will know how to relate certain physiological , pathological & inter individual variables can affect the action of drugs

**2.a.7.** Students will correctly interpret & apply the pharmacological prescriptions made by the doctor , following the administration guidelines to obtain an optimal therapeutic response

**2.a.8.** Students will be able to confidently inform the patient about the treatment they will receive and the techniques & procedures to be performed .

**2.a.9.** Students will be able to locate pertinent information regarding the medications that must be handled & administered to various patients in a clinical setting .

**2.a.10.** Students will be active participants in the health education of the general population specially on the proper use of medication & on efforts promote safety & rationale use .



## **2.b. Intellectual skills**

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

2.b.1 Select properly the drugs suitable for different patient populations (renal ,hepatic , pediatric , geriatrics ,pregnancy)

2.b.2 Calculate accurately drug's dosage, bioavailability, plasma half life and volume of distribution in different patient populations (renal , hepatic, pediatric , geriatrics) and for nephrotoxic drugs

2.b.3 Obtain and record a comprehensive drug history of the patient.

2.b.4 Document drug adverse reactions.

2.b.5 Adopt the questioning approach to own work & that of others to solve clinical problems.

## **2.c. General and Transferable skills:**

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

**2.c.1 Communicate** clearly, sensitively and effectively with colleagues from a variety of health and social care professions.

**2.c.2.Establish** good relations with other health care professionals regardless their degrees or rank (top management, subordinate or colleague).

**2.c.3 Communicate** effectively with individuals regardless of their social, cultural, ethnic backgrounds, or their disabilities.

2.c.4 **Cope up** with difficult situations as breaking news.

2.c.5 **Respect** superiors, colleagues and all members of the health



profession.



### 3- Course contents

<b>1) General Pharmacology</b>	<b>Drug forms &amp; routes</b> <b>Basic principles of pharmacokinetics</b> <b>Basic principles of pharmacodynamics</b> <b>Adverse effects of drugs</b> <b>Drug interactions</b>
<b>2) Pharmacotherapy of pain &amp; analgesic</b>	<b>Antipyretic &amp; anti-inflammatory drugs</b> <b>Central analgesics – opioids</b>
<b>3) Pharmacotherapy of gout</b>	<b>Hypo uricemic &amp; anti gout drugs</b>
<b>4) Pharmacology of autonomic nervous system</b>	<b>Cholinergic &amp; adrenergic transmission</b>



5) Pharmacology of skeletal muscle	Muscle relaxants
6) Local & general	

anesthetic drugs	
7) Pharmacotherapy of epilepsy	Anti epileptic & anti convulsivedrugs
8) Cardiac pharmacology	Positive inotropic drugs ,
9) Pharmacotherapy of hypertension	Anti hypertensive drugs
10) Pharmacotherapy of dyslipidemias	Lipid lowering drugs ( hyperlipidemic )
11) Pharmacology of hemostasis & coagulation	
12) Pharmacotherapy of anaemia	
13) Pharmacotherapy of diabetes	Insulin & non insulin anti diabetics



<b>14) Doping control &amp; banned substances</b>	<b>Anabolic androgenic steroids ,peptide hormones , growth factors &amp;mimetics ,beta-2 agonists .</b>
<b>15) Sport supplementation</b>	
<b>16) Chemotherapeutic drugs</b>	<b>Antibiotics</b>
<b>17) Antifungal agents</b>	
<b>18) Antiviral agents</b>	
<b>19) Pharmacotherapy of gastrointestinal diseases</b>	<b>Peptic ulcer , spasmolytics , anti diarrheal drugs &amp; antiemetic drugs.</b>

#### **4- Teaching and learning methods**

##### **METHODS USED:**

4.1-Modified Lectures

4.2-Small group discussion

4.3-Self assessment questions and internet interrogation about self assessment questions.



## **5- Student Assessment Methods**

### **5-B) Weighting system:**

Written	30	<b>60%</b>
Oral	20	<b>40%</b>
<b>Total</b>	<b>50</b>	<b>100%</b>

**Formative Assessment:** Student knows his marks after the formative exams.

### **5-E) Examination description:**

<b>Examination</b>	<b>Description</b>
<b>1- Written</b>	MCQ ,compare , explain, short essay questions
<b>2 - Oral</b>	One oral examination station with two staff members ( 10 – 15 mins)

## **6- List of References**

6.1. **Handouts** updated administered by staff members

6.2. **Essential Books** (Text Books):

Principles of pharmacology (2012): the pathophysiologic basis of drug [et al.], Philadelphia : Lippincott Williams & Wilkins.

6.3. **Recommended Books:**

GOODMAN AND GILMAN (2011): THE PHARMACOLOGICAL BASIS OF THERAPEUTICS 12<sup>th</sup> edition.6.4- **web Sites:** [www.micromedex.com](http://www.micromedex.com)

**Course Coordinator: Assistant Professor : Dr. Mary Elkoumos Boutros Yacoub**

**Head of Department: Prof. Dr. Nasr Nazmy**

**Date :**



***Benha University Faculty of Medicine  
Department of Forensic Medicine and Clinical Toxicology***

***Course Specifications***

***Course title: Performance-Enhancing Drugs  
Code SM 504***

- ***Department offering the course: Forensic Medicine and Clinical Toxicology***

- ***Academic year: 1<sup>st</sup> part***

***A) Basic Information:***

- ***Allocated marks: 50 marks.***
- ***Course duration: 15 weeks of teaching.***
- ***Credit hours: 1 credit hour***

***B) Professional Information:***

***1- Overall Aim of the Course:***

- ***To provide the postgraduate students with basic scientific knowledge related to drug used in sport***

***[Performance-Enhancing***

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Drugs [Drug Doping]].

○ To provide the postgraduate students with basic ethical, professional, communication skills essential for establishing appropriate attitudes with colleagues.

2- **Intended Learning Outcomes (ILOs):**

**2.a. Knowledge and understanding:**

***By the end of the course, students should be able to:***

2.a.1. ***Mention*** different categories and methods of drug doping.

2.a.2. ***Discuss*** types, mechanism of actions, pathophysiology, clinical manifestations, laboratory investigations and management of different types and methods of drug doping.

2.a.3. ***Explain*** the prohibited substances in particular sports.

2.a.4. ***Discuss*** Doping control procedures.

2.a.5. ***Illustrate*** exercise Addiction and Addiction in Retired Athletes.

2.a.6. ***Describe*** Concussion in Sports & Posttraumatic Stress in Athletes.

2.a.7. ***Discuss*** Sudden death in athletes [different causes, types and mechanism of death].

2.a.8. ***Mention*** different Ethical issues and doping control.

**2.b. Intellectual Skills:**

***By the end of the course, students should be able to:***

2.b.1. ***Interpret*** laboratory investigations in different types and methods of drug doping.

2.b.2. ***Differentiate between*** different categories and methods of drug doping.

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**2.c. General and transferable Skills:**

***By the end of the course, students should be able to:***

***2.d.1 Establish life-long self-learning required for continuous professional development.***

***2.d.2 Use the sources of biomedical information and communication technology to remain current with advances in knowledge and practice.***

***2.d.3 Retrieve, manage, and manipulate information by all means, including electronic means.***

***2.d.4 Present information clearly in written, electronic and oral forms.***

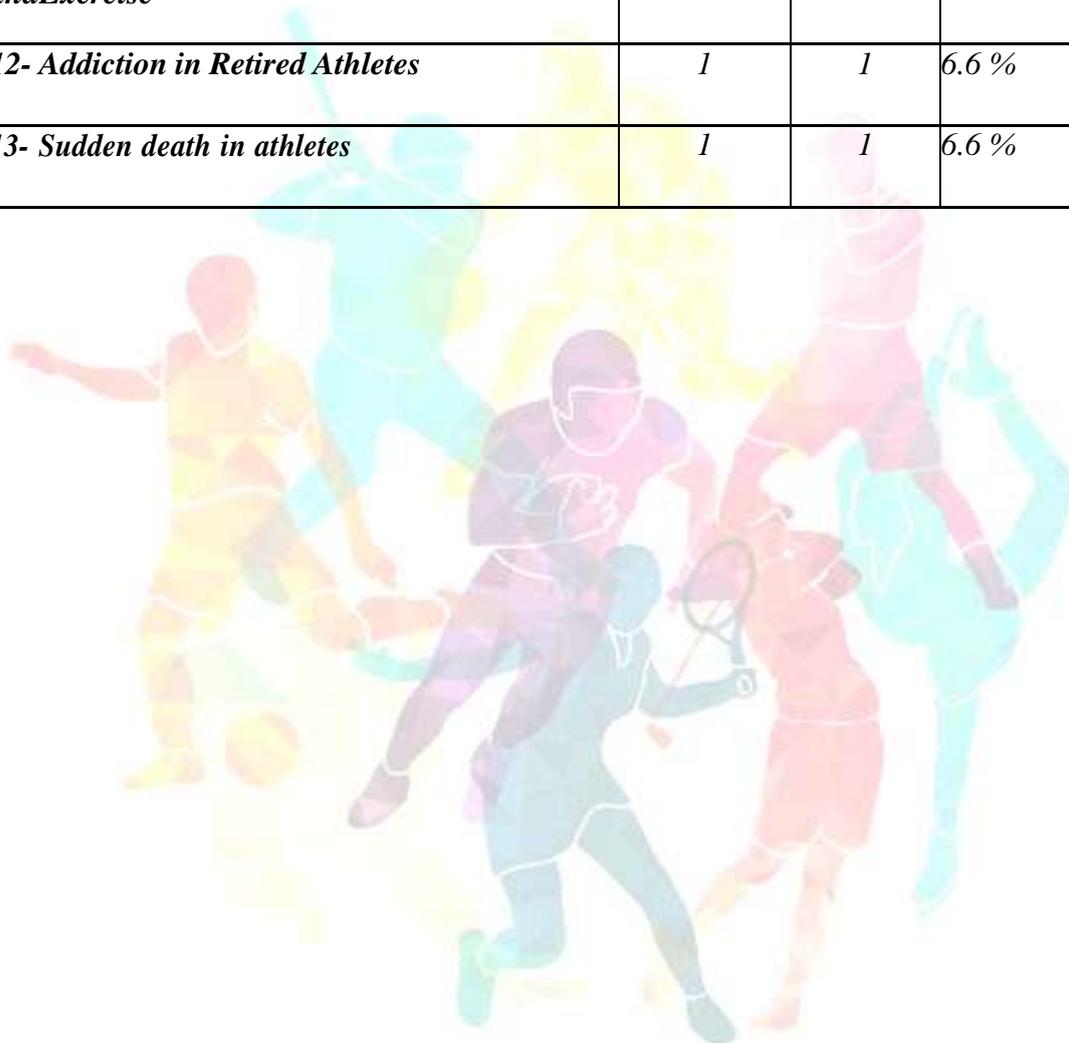
***2.d.5 Establish effective interpersonal relationship to communicate ideas and arguments.***

**3- Course contents :**

<b>Subject</b>	<b>Lectures / tutorials (hrs)</b>	<b>Total (hrs)</b>	<b>% of Total</b>
<b>1- Introduction, history &amp; categories of drug Doping( pharmacology of Performance- Enhancing Drugs)</b>	<b>1</b>	<b>1</b>	<b>6.6 %</b>
<b>2- Anabolic androgenic steroids</b>	<b>1</b>	<b>1</b>	<b>6.6 %</b>
<b>3- Hormones and related substances</b>	<b>1</b>	<b>1</b>	<b>6.6 %</b>
<b>4- B2-Agonists &amp; Agents with anti-estrogenic activity</b>	<b>1</b>	<b>1</b>	<b>6.6 %</b>
<b>5-Diuretics and other masking agents</b>	<b>1</b>	<b>1</b>	<b>6.6 %</b>
<b>6- Prohibited methods</b>	<b>1</b>	<b>1</b>	<b>6.6 %</b>

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<i>7- Stimulants</i>	<i>1</i>	<i>1</i>	<i>6.6 %</i>
<i>8-Prohibited substances in particular sports</i>	<i>1</i>	<i>1</i>	<i>6.6 %</i>
<i>9- Dietary supplements</i>	<i>1</i>	<i>1</i>	<i>6.6 %</i>
<i>10- Doping control procedures</i>	<i>1</i>	<i>1</i>	<i>6.6 %</i>
<i>11- Exercise Addiction: The Dark Side of Sports and Exercise</i>	<i>1</i>	<i>1</i>	<i>6.6 %</i>
<i>12- Addiction in Retired Athletes</i>	<i>1</i>	<i>1</i>	<i>6.6 %</i>
<i>13- Sudden death in athletes</i>	<i>1</i>	<i>1</i>	<i>6.6 %</i>





<b>14-Concussion in Sports &amp; Posttraumatic Stress in Athletes</b>	<b>1</b>	<b>1</b>	<b>6.6 %</b>
<b>15- Ethical issues and doping control</b>	<b>1</b>	<b>1</b>	<b>6.6 %</b>
<b>TOTAL</b>	<b>15</b>	<b>15</b>	<b>100%</b>

**4 Teaching and learning methods:**

**METHODS USED:**

1. Modified lectures.
2. Tutorials.
3. Case study.

<b>Method</b>	<b>Evidence</b>	<b>ILOs</b>
Modified lectures/ Tutorials	CDs of lectures including (video films, brainstorming, problemsolving, etc...)	2.a.1 -----2.a.8., 2.b.1.-2.b.2. 2.c.1.----2.c.3 2.d.1.----2.d.4 , 2.f.1. ----2.f.5
Case study	Case scenarios	2.a.1 -----2.a.8., 2.b.1.-2.b.2. 2.c.1.----2.c.3 2.d.1.----2.d.4 , 2.f.1. ----2.f.5

**5-A) ATTENDANCE CRITERIA:**

1. Lectures
2. Log book (reports , field visits & students activity).



**5-B) Assessment TOOLS:**

<b><i>Tool</i></b>	<b><i>Evidence</i></b>	<b><i>Purpose (ILOs)</i></b>
Written examination: <input type="checkbox"/> MCQs <input type="checkbox"/> Case study <input type="checkbox"/> Short essay <input type="checkbox"/> Complete <input type="checkbox"/> True or false with explanation	Attached module of examination	<b>Knowledge &amp; understanding</b>  <b>Intellectual</b>
Oral examination	Viva card system	<b>Knowledge &amp; understanding</b> <b>Intellectual</b> <b>General and Transferable</b>

**5-C) TIME SCHEDULE:**

*Final Exam at April or October.*

***FORMATIVE ASSESSMENT:***

- *Student knows his marks after the Formative exams.*

**5-D) Weighting System:**

<b><i>Examination</i></b>	<b><i>Marks allocated</i></b>	<b><i>% of Total Marks</i></b>
<i>Written</i>	<b>30</b>	<b>60%</b>
<i>Oral</i>	20	40%



<b>Total</b>	<b>50</b>	<b>100%</b>
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6- **List of references:**

6.1- Basic materials:

- **Department book by staff members.** 6.2- Essential books  
(textbooks):

- **Clinical Sports Psychiatry** Edited by David A.; Baron Claudia L.; Reardon Steven H. Baron (2013).

- **Olympic Textbook of Science in Sport.** Edited by Ronald J. Maughan © 2009 International Olympic Committee. ISBN: 978-1-405-15638-7

6.3- Recommended books:

- **Olympic Textbook of Medicine in Sport,** Edited by M. Schweltnus. © 2008 International Olympic Committee. ISBN: 978-1-4051-5637-

6.4- Periodicals, Web sites, etc:

- <http://www.pubmed.com>.
- <http://sciencedirect.com>.

7- **Facilities required for teaching and learning:**

Facilities used for teaching this course include:

- Department lectures halls: two
- Department lab.

**Course coordinator: Prof. (A) Abdelmonem G. Madboly**

**Head of Department: Prof. Nermeen AdlyDate:**



*Benha University*  
*Faculty of Medicine*  
*Department of Biochemistry.*

## *Course Specifications*

**Academic Year:** 2020 – 2021.

<b>1- Course information</b>		
<b>(Code):</b> SM 605.	Course title: Master Degree in sports medicine.	<b>First part</b>
<b>Department offering the course:</b> Medical Biochemistry.	<b>Teaching hours:</b> <u>1</u> credit hour = <u>15</u> total teaching hours. <ul style="list-style-type: none"><li>• <b>Allocated marks:</b> <u>50</u> marks.</li><li>• <b>Course duration:</b> <u>15</u> weeks of teaching.</li></ul>	

<b><u>2- Overall Aim of the Course:</u></b>	<ol style="list-style-type: none"><li>1.1. Illustrate the contribution of the organs in metabolic process under different physiological circumstances;</li><li>1.2. To enable the student to understand the bioenergetics of the concerned metabolic pathways under different physiological circumstances and their integrator regulations with other working metabolic pathways;</li><li>1.3. Enable students to point out and understand the</li></ol>
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	<p>biochemical and the molecular basis of a range of diseases, their diagnosis and the development of therapies;</p> <p>1.4. Provide a sound knowledge and understanding of the biochemical importance of macro-, micronutrients, hormones and enzymes;</p> <p>1.5. Acquire a critical understanding of the basic principles of molecular biology, different methods used in diagnosis of diseases;</p> <p>1.6. Be familiar with biotechnology methods and their clinical implications and be able to explain some detailed examples;</p> <p>1.7. Be able to devise and evaluate suitable experimental methods for the investigation of relevant areas of biochemistry and molecular biology.</p> <p>1.8. To enable the student to describe major body fluids composition and their clinical impact;</p> <p>1.9. To enable the student to illustrate and/or describe the metabolic pathways of macronutrients and nucleotides;</p> <p>1.10. Develop through a flexible and progressive structure, a range of subject-specific and transferable skills, including practical laboratory skills, self-management, information retrieval, communication and presentation skills, working with others, decision making and meeting deadlines, that equip students for future employment.</p>
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### **3- Intended Learning Outcomes (ILOs)**

<p><b>A- 2.1- Knowledge and understanding:</b></p>	<p><i>By the end of the course, students should be able to:</i></p> <p>2.a. 1 Describe the main metabolic pathways of the three main dietary sources of energy: carbohydrates, fats and proteins, their digestion absorption, their oxidation to release energy.</p> <p>2.a. 2 Describe the regulation of these pathways and the integration of their metabolism</p> <p>2.a. 3 point-out biochemical alteration in related metabolic disorders.</p> <p>2.a. 4 Describe the role of vitamins and enzymes required</p>
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	<p>for catalysis of these processes, in addition to their deficiency manifestations.</p> <p>2.a. 5 Describe the contribution of certain tissues like liver, kidney, muscles and nervous system to metabolism in health and disease.</p> <p>2.a. 6 Illustrate the metabolism of the major minerals and trace elements, their functions and alterations in metabolic processes due to deficiency or excess of these elements</p> <p>2.a. 7 Illustrate knowledge about nucleic acid metabolism with special emphasis on their role in protein synthesis.</p> <p>2.a. 8 Illustrate the general principles of genetic engineering and how may this be used for the diagnosis and management of diseases.</p> <p>2.a. 9 Describe the components of some body fluids e.g. blood, urine and sweat.</p>			
<p>B- 2.2. Intellectual skills:</p>	<p>2.b. 1 Analyze pathological glucose tolerance curve.</p> <p>2.b. 2 Interpret medical laboratory reports.</p> <p>2.b. 3 Solve problems related to metabolic disturbances in a given case study report.</p>			
<p>C- 2.3. General and transferable skills:</p>	<p><b><i>By the end of the course, students should be able to:</i></b></p> <p>2.d. 1 Communicate properly with the staff members as well as with each other.</p> <p>2.d. 2 Work effectively in groups.</p> <p>2.d. 3 Use available resources to get data &amp; knowledge.</p>			
<p><b>4- <u>Course contents:</u></b></p>				
<p><b>Subject</b></p>	<p><b>Lectures (hrs)</b></p>	<p><b>Tutorials</b></p>	<p><b>Total (hrs)</b></p>	<p><b>% of Tot</b></p>



		(hrs)		al
Blood pH regulation, acidosis and alkalosis	½	½	1	
Glucoseaminoglycans (GAGs), collagen , clinical correlation	½	---	½	
Blood glucose regulation, Glucose tolerance test, hyper- and hypoglycemia	½	---	½	
Diabetes Mellitus. Plasma lipoproteins, hyperlipidemia	1	½	1 ½	
Cholesterol metabolism, hypercholesterolemia and Atherosclerosis	½	½	1	
Lipotropic factors, fatty liver	½	---	½	
FA oxidation, ketosis	½	---	½	
Urea cycle, NPN compounds	½	---	½	
Heme metabolism and hemoglobinopathies	½	---	½	
Porphyria and Jaundice	½	½	1	
Insulin, steroid, thyroid and parathyroid hormones	½	---	½	
Plasma enzymes &	----	½	½	



their diagnostic values				
Vitamins & their deficiency manifestation	1	---	1	
Calcium & phosphate homeostasis, sodium, potassium, iron, zink and their deficiency manifestation.	1	---	1	
Hyperuricemia & gout	½	---	½	
DNA structure, replication, transcription & Regulation of gene expression	½	---	½	
RNA structure, transcription and posttranscriptional modification	½	---	½	
Cell cycle & apoptosis, DNA damage, mutation and repair	½	---	½	
Protein synthesis: translation and posttranslational modifications	½	---	½	
Recombinant DNA technology, blotting techniques and gene	½	½	1	



therapy.				
Liver & kidney function tests, Urine, blood, and sweat: normal and abnormal constituents & their clinical relevance.	1	---	1	
Total	12	3	15	100
<b>5- Teaching and learning methods:</b>	<b>METHODS USED:</b> 3. Lectures 4. Tutorials 5. E learning			
<b>6- Students Assessment methods:</b>				
<b>A- Assessment TOOLS:</b>	<b>Tool</b>		<b>Purpose (ILOs)</b>	
	Written examination		To assess knowledge & intellectual skills.	
	Oral examination		To assess knowledge, intellectual skills & general & transferable skills.	
<b>B- TIME SCHEDULE:</b>	Exam		week	
	1- Final exam		April or October	
<b>C- Weighting System:</b>	<b>1- FORMATIVE ASSESSMENT:</b> Student knows his marks after the Formative exams.			
	<b>2- SUMMATIVE ASSESSMENT</b>			
	<b>Examination</b>		<b>Marks allocated</b>	<b>% of Total Marks</b>
Written exam (2 hour) composed of short essay questions, multiple choice questions & case study report.		30	60%	



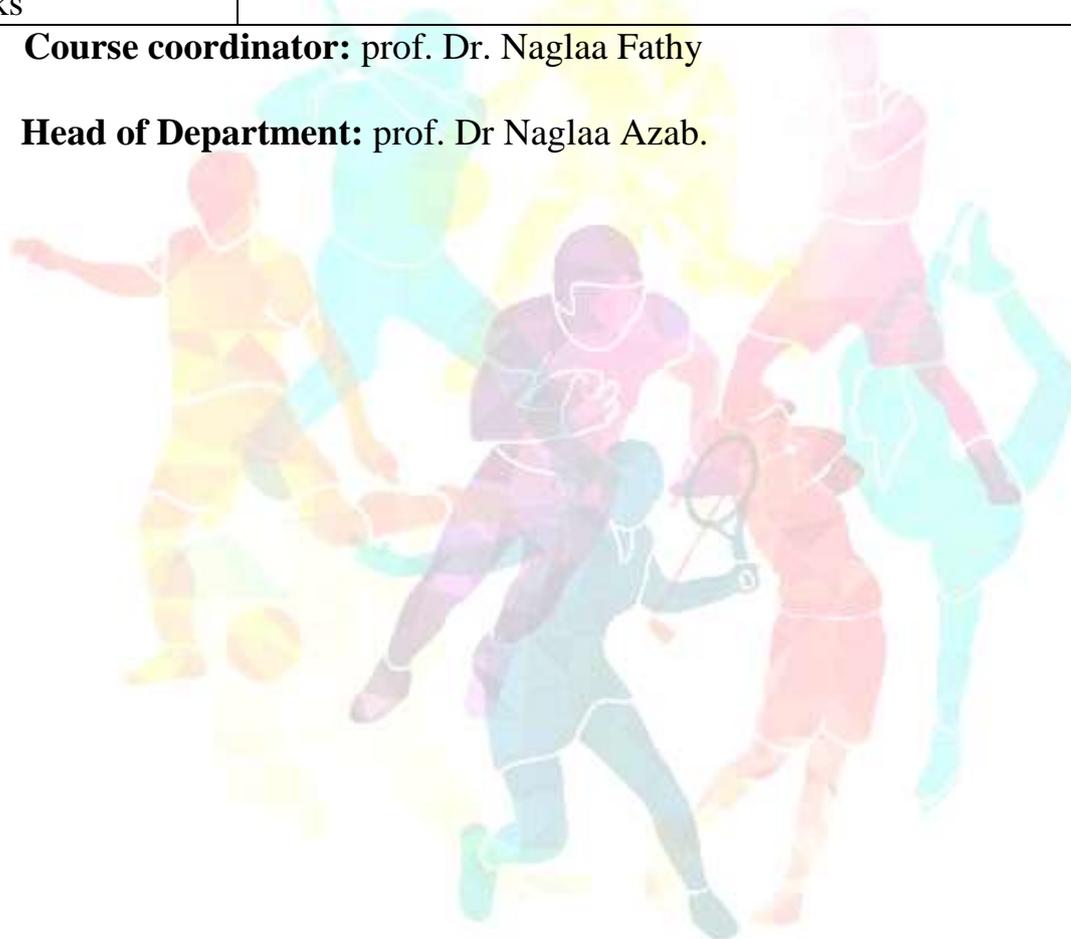
	1. exam:			
	2. Oral exam:one session	20	40%	
	<b>Total</b>	<b>50</b>	<b>100%</b>	

**List of references:**

Main Books	Department book (available for students to purchase from different bookshops at the faculty).
Essential books	Harper's Biochemistry by: Roberk K. Murray, Daryl K. Granner, Peter A. Mayes and Victor W. Rodwell.
Recommended Books	Lippincott's illustrated Biochemistry.

**Course coordinator:** prof. Dr. Naglaa Fathy

**Head of Department:** prof. Dr Naglaa Azab.





جامعة: بنها  
كلية: الطب البشرى  
قسم : طب المجتمع والبيئة وطب الصناعات

توصيف مقرر

SM 606

بيانات المقرر
اسم المقرر: Methods of research and statistics
الرمز الكودى : SM 606
التخصص : Sport medicine
المستوى : First part of Master degree
عدد الوحدات الدراسية : 1 ساعات معتمدة 1 (ساعة نظرية فقط)

1-هدف المقرر:



- To equip the student with Principles of Biostatistics, types of data, methods of presentation of data, types of Epidemiological studies, Sampling, statistical methods & research methods.
- To provide the student with the knowledge and skills necessary to practice statistical analytical methods and research methods
- To enable the student to evaluate sport health problems.
  - Knowledge of concept of demography, demographic features of the population, population distribution & demographic transition.

## 2- Intended learning outcomes(ILOs):

### 2.a Knowledge and understanding:

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

**2.a.1.** Describe the basics of Principles of Biostatistics, types of data, methods of presentation of data, types of Epidemiological studies, Sampling, statistical methods, research methods, demography & population estimation and its different tools.

**2.a.2.** Explain the usefulness of screening tests, and calculate sensitivity, specificity, and predictive values.

**2.a.3.** Define the screening tests pertinent to selected diseases and the at-risk approach in the application of screening tests.

**2.a.4.** Describe the study design, uses, and limitations.

**2.a.5.** Define clinical epidemiology and its basic components and measure disease risk factors.



**2.a.6.** Define the sources of data, methods of collection, sampling techniques and advantages of sampling.

## **2.b Intellectual Skills**

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

**2.b.1** Choose suitable methods for conducting research.

**2.b.2** Choose suitable methods for analysis of data.

**2.b.3** Summarize data, construct tables and graphs.

**2.b.4** Calculate measures of central tendency dispersion and describe the normal curves and its uses.

**2.b.5** Interpret selected tests of significance and the inferences obtained from such tests.

**2.b.6** Analyze and evaluate scientific basic knowledge about his community and its problems and to do conclusions from it.

**2.b.7** Solve players problems related to sport, making use of the available data.

## **2.c Professional and Practical Skill**

Not Applicable

## **2.d General and Transferable Skills:**

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

**2.d.1** Establish life-long self-learning required for continuous professional development.

**2.d.2** Use the sources of biomedical information and communication technology to remain current with advances in knowledge and practice.



**2.d.3** Retrieve, manage, and manipulate information by all means, including electronic means.

**2.d.4** Present information clearly in written, electronic and oral forms.

**2.d.5** Conduct counseling sessions for prevention & control of different conditions for healthy individuals, for patients as well as their families.

**2.d.6** Establish effective interpersonal relationship to Communicate ideas and arguments & Work effectively as a member or a leader of an interdisciplinary team

**2.d.7** Engage in evidence based discussion.

**2.d.8** Work effectively as a member or a leader of an interdisciplinary team

3- محتوالمقرر:

Topics	Hours of Lectures	Practical/Tutorial	Total
Types of data	1		1
Distribution of data	1		1
Sources of data	1		1
Collection of data: <ul style="list-style-type: none"><li>• Sampling</li><li>• Screening</li><li>• Survey</li><li>• Epidemiological studies</li></ul>	4		4



Summarization of data: • Measures of central tendency • Measures of scatter	2		2
Presentation of data: • Tabular presentation • Graphic presentation • Mathematical presentation	3		3
Hypothesis testing steps	1		1
Tests of significance: • Parametric tests • Non parametric tests	2		2
<b>Total</b>	<b>15 hrs.</b>	<b>-</b>	<b>15</b>

4-أساليب التعليم والتعلم :-

4.1 Modified lectures

4.2 Attending the department scientific seminars and thesis discussion

4.3 Group discussion

4.4 Brain storming

5-تقويم الطلاب :-

5.1- **Written exams:**

Short essay: to assess knowledge.

5.2- **Oral Exams:** to assess knowledge.

توزيع الدرجات:

- Written exam 60 % of total marks : 30 marks
- Oral exam 40 %: 20 marks



طرق اخرى للتقييم بدون درجات

- Seminars preparation
- Log book
- Attendance and absenteeism

قائمة الكتب الدراسية والمراجع:

- Basic materials like Department notebook: **Handouts** of the staff member in the department (2012-2013).
- Essential books (text books) like **Khalil IF, 1999**: Biostatistics, Cairo University and **Maxcy RL, 2008**: Public health and preventive medicine.
- Recommended books like statistics made easy, statistics at a glance and clinical epidemiology
- Periodicals, Web sites, etc:
  - WHO.int.com
  - Pub. Med
  - Google
  - Science direct

7- الإمكانيات المطلوبة للتعليم والتعلم

- Adequate infrastructure including teaching rooms, comfortable desks.
- Teaching tools including screen, smart board , computer and data show.

تمت مناقشة التوصيف واعتماده في مجلس القسم رقم ( ) بتاريخ

رئيس القسم : ا.د/ حسنى عبدالرحمن

المسئول عن المقرر : ا.د/ رشاشاكر الدسوقي



جامعة: بنها  
كلية: الطب البشرى  
قسم : الطب الرياضى

### توصيف مقرر

**SM 607**

بيانات المقرر
اسم المقرر Nutrition
الرمز الكودى: SM 607
التخصص: sports Medicine
المستوى: First part of Master degree
عدد الوحدات الدراسية: 1 ساعات معتمدة (1 ساعة نظرية)

#### • هدف المقرر:

- To provide students with detailed knowledge of the metabolism of nutrients and of nutritional requirements in man
- To promote understanding of current theories of the relationships between diet and performance in sport, and between diet, exercise and health
- To make students aware of the practical issues involved in setting nutritional goals and translating these into eating strategies
- To train students in research methods relevant to the study of sports nutrition

## 2- Intended learning outcomes (ILOs):

### 2.a Knowledge and understanding:



- By the end of the course, the student should be able to:
  - 2.a. 1 The links between human nutrition and metabolism during exercise
  - 2.a. 2 The links between nutrition and performance in sport and exercise
  - 2.a. 3 Dietary practices adopted by athletes in various sports and at different levels of competition
  - 2.a. 4 The principles that govern the translation of nutritional goals into dietary strategies
  - 2.a. 5 The links between physical activity, nutrition and health
  - 2.a. 6 Appropriate research procedures applied to the acquisition of knowledge and solution of problems in sport and exercise nutrition in particular and in sports science in general, including the moral, ethical and legal issues that underpin best practice in dealing with human
  - 2.a. 7 Participants in research studies
  - 2.a. 8 Practical issues that influence the application of nutrition principles in competitive sport
  - 2.a. 9 Teaching, learning and assessment strategies

## **2.b Intellectual Skills**

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

- 2.b. 1.** Interpret accurately food label information.
- 2.b..2.** Explain how carbohydrates, proteins, and lipids are used in the body.
- 2.b.3.** Calculate the caloric requirements individually according to age ,sex, nature of working.
- 2.b.4.** Explain how unhealthy food & lifestyle could predispose to malnutrition.
- 2.b.5.** Explain food safety and environmental concerns about food issues.

## **2.c Professional and Practical Skill**

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

- 2.c, 1 Design** a program for prevention of malnutrition.
- 2.c, 2 Assess** the nutritional status of different vulnerable groups.
- 2.c, 3 Estimate** anthropometric measurements.

## **2.d. General and Transferable Skills:**



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

**2.d.1 Communicate** effectively.

**2.d. 2 Use** the sources of biomedical information and communication technology to remain current with advances in knowledge and practice

**2.d. 3. Educate** others all issues concerning their nutrition and health.

**2.d. 4 Evaluate** self performance and continue to learn.

**2.d. 5 Use** different sources of data and knowledge.

**2.d. 6. Work** effectively as a member or a leader of an interdisciplinary team.

**2.d. 7. Manage** scientific meetings and manage time

3- محتوالمقرر:

Topics	Lectures	Practical	Total	% of total hours of 1 <sup>st</sup> part
Basic nutrients Carbohydrates • Fats • Proteins • Vitamins & minerals •	2		2	12.5 %
Dietary fibers	0.5		0.5	
Trace elements	0.5		0.5	
Feeding of vulnerable group Females in childbearing period School children Youth Athletes Geriatric	2		2	
Antioxidants	1		1	
Food additives	1		1	



Nutritional assessment Food balance sheet	1.5		<b>1.5</b>
Therapeutic nutrition Diabetic patient Hypertensive patient Renal patient Hepatic patient	2		<b>2</b>
Nutritional health problems:- :Protein energy malnutrition Marasmus Kwashiorkor	0.5		<b>0.5</b>
:Vitamin deficiency	1		<b>1</b>
:Anaemias Iron deficiency anaemia Megaloblasticaemia	1		<b>1</b>
Dental caries Osteoporosis &osteomalachia	1	.	<b>1</b>
Obesity	1		<b>1</b>

4-أساليب التعليم والتعلم :



4.1 Modified lectures

4.2 Attending the department scientific seminars and thesis discussion

4.3 Group discussion

4.4 Brain storming

5- تقويم الطلاب:

5.1. **Written exams:**

Short essay: to assess knowledge

5.2- **Oral Exams:** to assess knowledge

.

توزيع الدرجات:

- Written exam 60 % of total marks :30 marks
- Oral exam 40 % :20 marks

طرق اخرى للتقييم بدون درجات

- Seminars preparation
- Log book
- Attendance and absenteeism

6- قائمة الكتب الدراسية والمراجع:

- Basic materials like Department notebook: *Handouts* of the staff member in the department .
- Essential books (text books) like *Khalil IF, 1999*: Biostatistics, Cairo University and *Maxcy RL, 2008*: Public health and preventive medicine.
- Recommended books like statistics made easy, statistics at a glance and clinical epidemiology
- Periodicals, Web sites, etc:



- WHO.int.com
- Pub. Med
- Google
- Science direct

## 7- الإمكانيات المطلوبة للتعليم والتعلم

- Adequate infrastructure including teaching rooms, comfortable desks.
- Teaching tools including screen, smart board , computer and data show.

تمت مناقشة التوصيف واعتماده في مجلس القسم رقم (

المسنول عن المقرر:أ.د

رئيس القسم :أ.د د





جامعة بنها  
كلية الطب البشري  
قسم الأمراض العصبية و الطب النفسي

توصيف مقرر علمي في العلوم السلوكية وعلاقتها بالطب الرياضي  
ماجستير الطب الرياضي

بيانات المقرر		
الفرقة / المستوى : جزء أول	اسم المقرر : مقرر علمي في الطب النفسي فيما يخص الطب الرياضي مقرر علمي في العلوم السلوكية وعلاقتها بالطب الرياضي	الرمز الكودي : SM 608
	عدد الوحدات الدراسية : 1 ساعة معتمدة نظرية	التخصص : الطب الرياضي
	1.1 Discuss applying scientific knowledge essential for practice of clinical psychology according to the international standards. 1.2. Manage providing skills necessary for proper diagnosis and management of patients in the field of sports medicine including diagnostic, problem solving and decision making. 1.3. Discuss providing ethical principles related to the practice in this specialty. 1.4. Discuss applying active participation in community needs assessment and problems solving. 1.5. illustrate Providing maintenance of learning abilities necessary for continuous medical education. 1.6. describe providing maintenance of research interest and abilities.	1- هدف المقرر :
By the end of the course, the student should be able to:		1- المستهدف من تدريس المقرر :



<p>2a1. Describe how to explain various psychiatric terms, motivation, imagination and learning according to psychological view</p> <p>2.a.2 Identify mature and immature defensive mechanisms</p> <p>2.a.3 Explain the effect of social, biological and environmental factors on behavior</p> <p>2.a.4 Describe normal and abnormal behavior and developmental psychiatry</p> <p>2.a.5 Identify basics of doctor relationship</p> <p>2.a.6 Discuss basics of stress and its relation to sports</p> <p>2.a.7 Discuss different psychological terms defense mechanisms, stress, emotion, developmental psychology</p> <p>2.a.8 Demonstrate the effect of environment on human (Thinking, Emotions)</p> <p>2.a.9 Describe normal high intellectual functions (memory, thinking, mood, perception, motivation, stress, aggression)</p> <p>2.a.10 Explain abnormalities of perception, personality</p> <p>2.a.11 Describe abnormalities of memory</p> <p>2.a.12 Using imagination to qualify athletes</p> <p>2.a.13 Applying motivation to improve athletes' competition</p>	<p>أ- المعلومات والمفاهيم :</p>
<p>2.b.1 Analyze the information of Psychology in the field sport medicine.</p> <p>2.b.2. Solve problems in psychology and related branches making use of the available data.</p> <p>2.b.3.record the effect of personality on behavior</p> <p>2.b.4. Formulate scientific papers.</p> <p>2.b.5 Integrate between the science of psychology and sports medicine.</p> <p>2.b.6 Explain the effect of stress on sports and competitions</p>	<p>ب- المهارات الذهنية:</p>



	ج- المهارات المهنية الخاصة بالمقرر :
<p>2.d.1. Discuss how to Communicate effectively.</p> <p>2.d.2. Describe using the sources of biomedical information and communication technology to remain current with advances in knowledge and practice.</p> <p>2.d.3. Discuss Using different sources of data and knowledge.</p> <p>2.d.4. Describe how to Work effectively as a member or a leader of an interdisciplinary team.</p> <p>2.d.5. Estimate and evaluate self-performance and continue to learn.</p> <p>2.d.6. Illustrate how to Use different sources of data and knowledge.</p> <p>2.d.7. Discuss how to Work effectively as a member or a leader of an interdisciplinary team.</p> <p>2.d.8. Manage scientific meetings and manage time.</p> <p>2.d.9. Discuss how to Establish effective interpersonal relationship to communicate ideas and arguments</p> <p>2.d.10. How to continue self-learning.</p>	د - المهارات العامّة :



ILOs	Subject		-3 محتوى المقرر:		
<b>2.a.1,2.a.3,2.a.6,2.a.10            2.b.1,2.b.4,2.b.5,2.b.8            &amp;2.d.1,2.d.5,2.d.6,2.d.7,2.d.9</b>	1- Introduction & historical background				
<b>2.a.1,2.a.3,2.a.6,2.a.10            2.b.1,2.b.4,2.b.5,2.b.8            &amp;2.d.1,2.d.5,2.d.6,2.d.7,2.d.9</b>	2-Psychology in relation to sports				
2.a.3,2.a.4,2.a.5,2.a.6.2.a.8& 2.b.1,2.b.4,2.b.5,2.b.6 2.d.2,2.d.4,2.d.6,2.d.7,2.d.8,2.d.10	3-Self-esteem and confidence				
2.a.3,2.a.4,2.a.5,2.a.6.2.a.8& 2.b.1,2.b.4,2.b.5,2.b.6 & 2.d.2,2.d.4,2.d.6,2.d.7,2.d.8,2.d.10	4-Basic brain structures and behavior. Developmental psychology				
<b>2.a.1,2.a.3,2.a.6,2.a.10            2.b.1,2.b.4,2.b.5,2.b.8            &amp;2.d.1,2.d.5,2.d.6,2.d.7,2.d.9</b>	5-Personality				
<b>2.a.2,2.a.3,2.a.7,2.a.8&amp;            2.b.3,2.b.4,2.b.,2.b.7            &amp;2.d.3,2.d.4,2.d.6,2.d.8,2.d.9</b>	6- Stress				
2.a.3,2.a.4,2.a.5,2.a.6.2.a.8& 2.b.1,2.b.4,2.b.5,2.b.6 & 2.d.2,2.d.4,2.d.6,2.d.7,2.d.8,2.d.10	7- Emotions				
2.a.3,2.a.4,2.a.5,2.a.6.2.a.8& 2.b.1,2.b.4,2.b.5,2.b.6 & 2.d.2,2.d.4,2.d.6,2.d.7,2.d.8,2.d.10	8 – Motivation				
<b>2.a.1,2.a.3,2.a.6,2.a.10            2.b.1,2.b.4,2.b.5,2.b.8            &amp;2.d.1,2.d.5,2.d.6,2.d.7,2.d.9</b>	9- Perception, Attention, Sensory deprivation				
<b>2.a.2,2.a.3,2.a.7,2.a.8&amp;            ,2.b.7 52.b.3,2.b.4,2.b.            &amp;2.d.3,2.d.4,2.d.6,2.d.8,2.d.9</b>	10- Social psychology				
2.a.3,2.a.4,2.a.5,2.a.6.2.a.8& 2.b.1,2.b.4,2.b.5,2.b.6 & 2.d.2,2.d.4,2.d.6,2.d.7,2.d.8,2.d.10	11- Psychology of aggression				
<b>2.a.2,2.a.3,2.a.7,2.a.8&amp;            2.b.3,2.b.4,2.b.4,2.b.7&amp;2.c.3,2.c.5,2.c.6            &amp;2.d.3,2.d.4,2.d.6,2.d.8,2.d.9</b>	12- Intelligence, Imagination and learning				
<b>2.a.1,2.a.3,2.a.6,2.a.10</b>	13- Memory				



4.1-1.modified lectures	-4 أساليب التعليم والتعلم
4.1.2. Small group discussions	
4,1.3. Problem solving	
4,1.4.Self learning	
4.1.5. E lectures: BU-LMS benha university learning management system	
لا ينطبق	5- أساليب التعليم والتعلم للطلاب ذوى القدرات المحدودة
6- تقويم الطلاب :	
<ul style="list-style-type: none"><li>• <b>Written exams:</b> Assess knowledge &amp; understanding and intellectual skills.</li><li>• <b>Structured oral exams:</b> to assess knowledge and understanding, intellectual , professional and general and transferable skills.</li><li>•</li></ul>	أ- الأسالي ب المستخد مة
Final exam in May or November	ب- التوقيت
<ul style="list-style-type: none"><li>• Written: 30</li><li>• Oral: 20</li></ul>	ج- توزيع الدرجا ت
7- قائمة الكتب الدراسية والمراجع :	
Behavior sciences, medical psychology Prof:Ahmed Okasha 2015	أ- مذكرات
1.Psychology (8th Edition) 2015 by Carole Wade and Carol Tavris 2.Sports psychology: A complete introduction	ب- كتب ملزمة
1. The champion's mind: How great athletes think, train and thrive 2. handbook of sport psychology	ج- كتب مقترحة



<ul style="list-style-type: none"><li>▪ WHO.int.com</li><li>▪ Pub. Med</li><li>▪ Google</li></ul> <ol style="list-style-type: none"><li>1. International journal of sport and exercise psychology</li><li>2. American journal of psychology.</li><li>3. International journal of sport psychology</li></ol>	د - دوريات علمية أو نشرات
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مصفوفة طرق التدريس مع نواتج التعلم لمقرر

طرق التدريس		نواتج التعلم للمقرر
Other Methods	Modified Lectures	
*	*	2.a.1
*	*	2.a.2
*	*	2.a.3
*	*	2.a.4
*	*	2.a.5
*	*	2.a.6
*	*	2.a.7
*	*	2.a.8
*	*	2.a.9
*	*	2.a.10
*	*	2.a.11
*	*	2.a.12
*	*	2.a.13
*	*	2.b.1
*	*	2.b.2
*	*	2.b.3
*	*	2.b.4
*	*	2.b.5
*	*	2.b.6
*	*	2.d.1
*	*	2.d.2



	*		2.d.3
	*		2.d.4
	*		2.d.5
	*		2.d.6
	*		2.d.7
	*		2.d.8
	*		2.d.9
	*		2.d.10

مصفوفة طرق التقويم مع نواتج التعلم لمقرر

طرق التقويم		نواتج التعلم للمقرر
Structured Oral Exam	Written exam	
*	*	2.a.1
*	*	2.a.2
*	*	2.a.3
*	*	2.a.4
*	*	2.a.5
*	*	2.a.6
*	*	2.a.7
*	*	2.a.8
*	*	2.a.9
*	*	2.a.10
*	*	2.a.11
*	*	2.a.12
*	*	2.a.13
*	*	2.b.1
*	*	2.b.2
*	*	2.b.3
*	*	2.b.4
*	*	2.b.5
*	*	2.b.6
		2.d.1
		2.d.2
		2.d.3
		2.d.4

المعرفة والفهم

المهارات الذهنية

المهارات العامة



		2.d.5	
		2.d.6	
		2.d.7	
		2.d.8	
		2.d.9	
		2.d.10	

أستاذ المادة أ.د شويكار توفيق البكري      رئيس مجلس القسم العلمي : أ.د حسنى عبد الرحمن





توصيف مقرر الرياضي المتحد الأولمبي

University: Benha

Faculty of Medicine

Department: Sports Medicine

<b>1- Course information</b>		
<b>Code: SM 609</b>	<b>الرياضي Course name: المتحد الأولمبي</b>	<b>Grade/ Level: Master of Sports Medicine</b>
<b>Number of modules: 1 theoretical credit hour</b>		

Department offering the program: Sports Medicine •

Date of specification approval: department council, date 9/2020. •

Faculty council date 15/9/2020

**Authorization date of course specification:2020-2021**

- **Allocated marks: 50**
- **Course duration: 15 weeks of teaching.**
- **Teaching hours: 1 hours / week 15 total teaching hours.**

<b>2- Goal of the Course:</b>	To provide the candidate with International Governance of Individual Sports
<b>3- Target educational output:</b>	



<b>A- Knowledge and understanding:</b>	<b>By the end of the course the candidate will be able to:</b> 2.a. 1 Define Olympica and Olympic charter 2.a. 2 Explain Olympic symbols 2.a. 3 Define the International Olympic Committee (IOC) and mention its mission 2.a. 4 Enumerate sports in the Olympics
<b>B- Intellectual skills:</b>	<b>By the end of the course the candidate will be able to:</b> 2.b. 1 Differentiate between Olympic and paralympic 2.b. 2 Classify Sports law
<b>C- Professional and practical skills:</b>	
<b>D- General &amp; Transferable skills</b>	<b>By the end of the course the candidate will be able to:</b> <b>2.d.1 Utilize effectively various computer based instruction tools and E-learning and utilize a variety of computer-based self assessment tools.</b>

<b>4- Course content:</b>	<ul style="list-style-type: none"> <li>• International Governance of Individual Sports             <ol style="list-style-type: none"> <li>1. Olympic Games</li> <li>2. Olympic Charter</li> <li>3. International Olympic Committee (IOC)</li> <li>4. International Sports Federations (IFs)</li> <li>5. National Olympic Committees (NOCs)</li> <li>6. Organising Committees of the Olympic Games (OCOGs)</li> </ol> </li> </ul>
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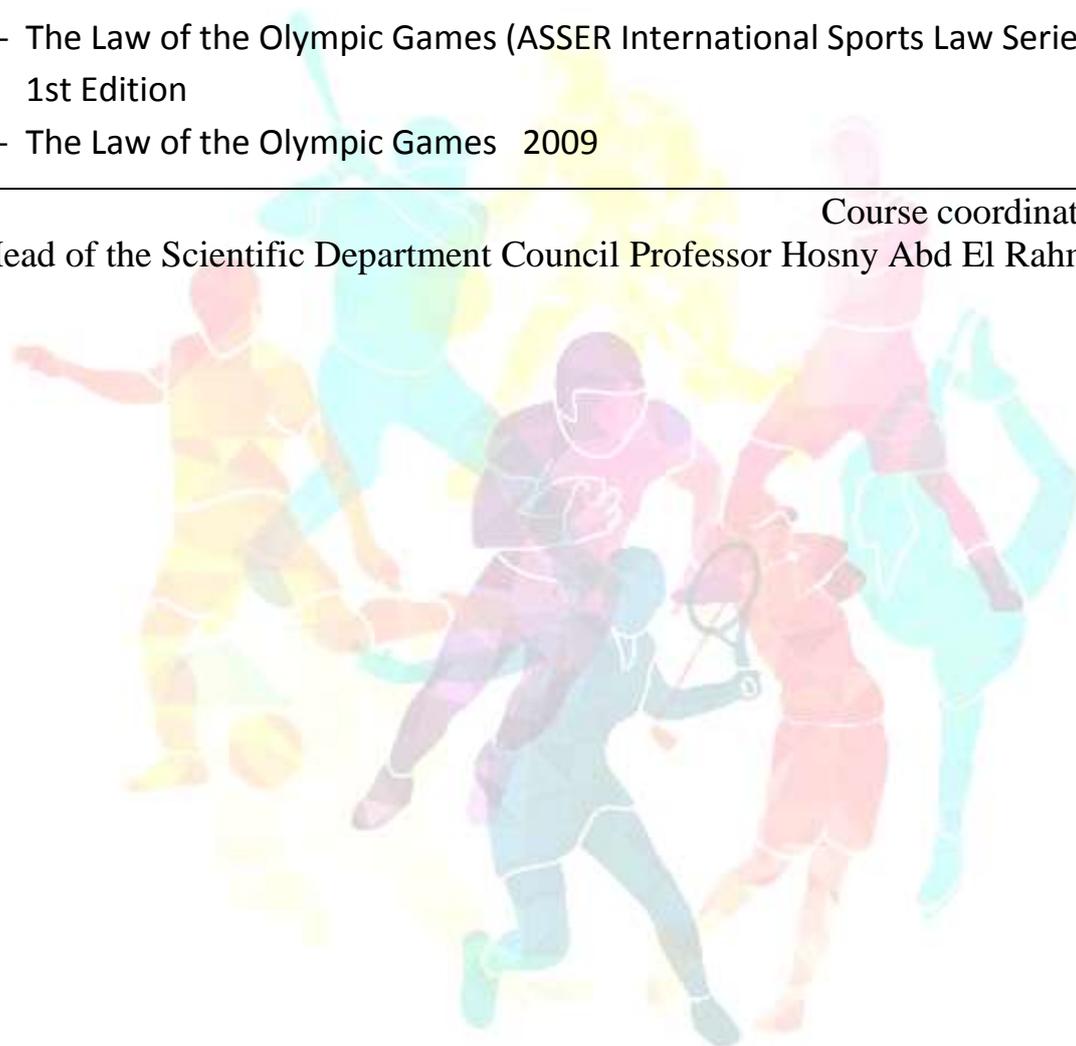


5- Teaching and learning methods	<ul style="list-style-type: none"> <li>Modified Lectures</li> <li>Small Group discussion</li> </ul>			
	طرق التدريس		نواتج التعلم للمقرر	
	Small Group discussion	Modified Lectures		
	✓	✓	2.a.1	المعرفة والفهم
	✓	✓	2.a.2	
	✓	✓	2.a.3	
	✓	✓	2.a.4	
	✓	✓	2.b.1	المهارات الذهنية
	✓	✓	2.b.2	
✓		2.d.1	المهارات العامة	
6- Student evaluation:				
A- The methods used	<ul style="list-style-type: none"> <li>Written Exam: Assess Knowledge &amp; Understanding and intellectual skills</li> <li>Oral Exam: Assess Knowledge &amp; Understanding, intellectual and general &amp; transferable skills</li> </ul>			
	طرق التقويم		نواتج التعلم للمقرر	
	Oral Exam	Written exam		
	✓	✓	2.a.1	المعرفة والفهم
	✓	✓	2.a.2	
	✓	✓	2.a.3	
	✓	✓	2.a.4	
	✓	✓	2.b.1	المهارات الذهنية
	✓	✓	2.b.2	
	✓		2.d.1	المهارات العامة
B- Timing	April or October			



C- Distribution of grades	<ul style="list-style-type: none"><li>• Written Exam: 30 marks</li><li>• Oral Exam: 20 marks</li></ul>
7- List of textbooks and references:	
A- Lecture notes and handout	
B- The Law of the Olympic Games (ASSER International Sports Law Series) 1st Edition	
C- The Law of the Olympic Games 2009	

Course coordinator:  
Head of the Scientific Department Council Professor Hosny Abd El Rahman





توصيف مقرر القوانين الدولية المنظمة للرياضة

**University:** Benha  
**Faculty of Medicine**  
**Department:** Sports Medicine

<b>8- Course information</b>		
<b>Code: SM 610</b>	<b>القوانين Course name:</b> الدولية المنظمة للرياضة	<b>Grade/ Level:</b> Master of Sports Medicine
<b>Number of modules:</b> 1 theoretical credit hour		

Department offering the program: Sports Medicine •  
Date of specification approval: department council, date 9/2020. •  
Faculty council date 15/9/2020  
**Authorization date of course specification:2020-2021**

- **Allocated marks: 50**
- **Course duration: 15 weeks of teaching.**
- **Teaching hours: 1 hours / week 15 total teaching hours.**

<b>9- Goal of the Course:</b>	To provide the candidate with legal issues of sports.
<b>10- Target educational output:</b>	



<b>E- Knowledge and understanding:</b>	<b>By the end of the course the candidate will be able to:</b> 2.a. 5 Define sports law 2.a. 6 Discuss the common sports law issues including labor law, contract issues, unfair competition and antitrust law, and torts. <b>2.a. 7</b> Discuss a variety of matters, including contract, tort, agency, antitrust, constitutional, labor, trademark, Sex Discrimination, criminal, and tax issues 2.a. 8 Explain the importance of sports law
<b>F- Intellectual skills:</b>	<b>By the end of the course the candidate will be able to:</b> 2.b. 3 Classify types of sports 2.b. 4 Classify Sports law
<b>G- Professional and practical skills:</b>	
<b>H- General &amp; Transferable skills</b>	<b>By the end of the course the candidate will be able to:</b> <b>2.d.1 Utilize effectively various computer based instruction tools and E-learning and utilize a variety of computer-based self assessment tools.</b>

11- Course content:	<ul style="list-style-type: none"> <li>• 1. Introduction             <ul style="list-style-type: none"> <li>1.1. Scope of Guide</li> <li>1.2. List of Key Abbreviations</li> </ul> </li> <li>2. Court of Arbitration for Sport             <ul style="list-style-type: none"> <li>2.1. Overview</li> <li>2.2. Arbitral Awards</li> </ul> </li> <li>• 3. Anti-Doping             <ul style="list-style-type: none"> <li>3.1. World Anti-Doping Agency (WADA)</li> <li>3.2. National Anti-Doping Agencies</li> <li>3.3. Anti-Doping Treaties and Declarations</li> </ul> </li> </ul>
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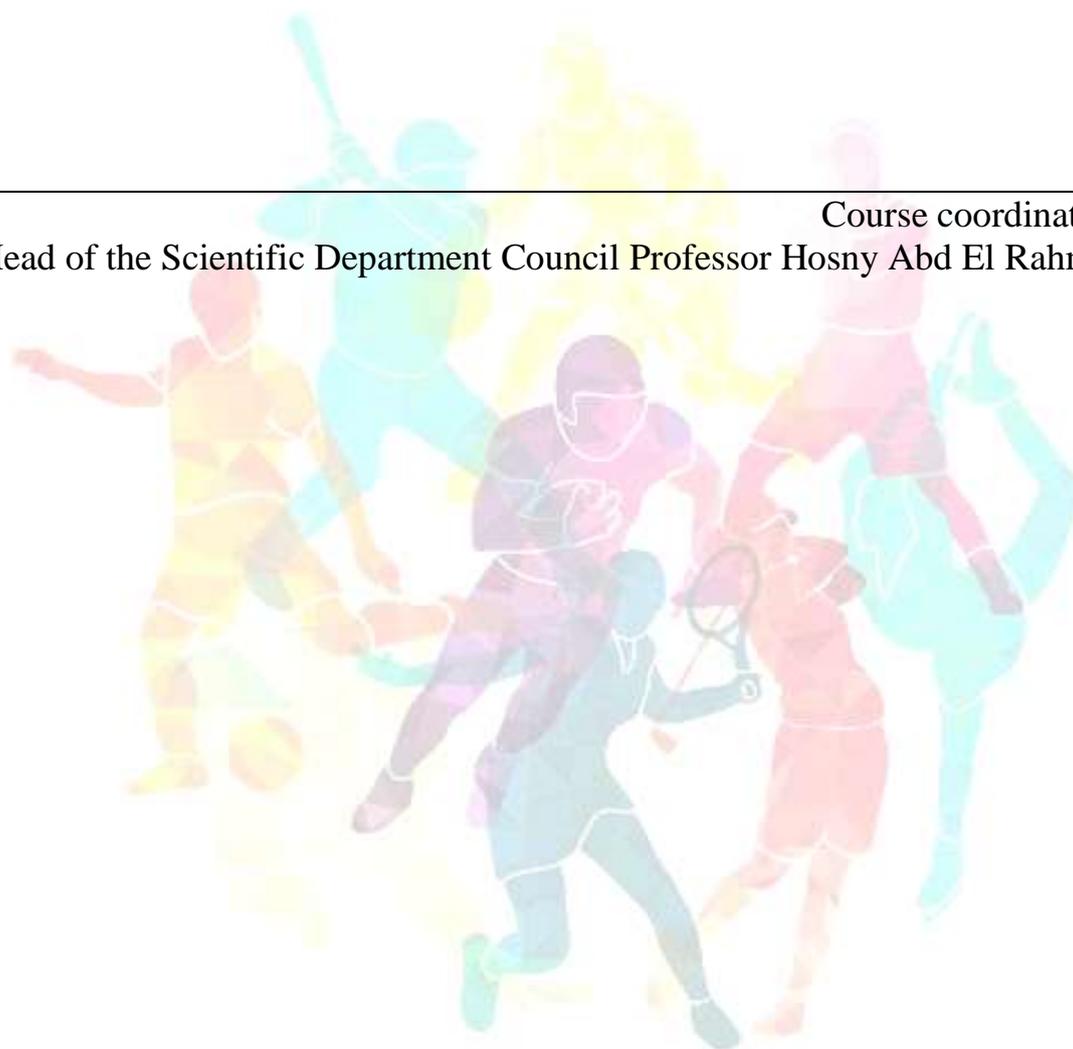


<p>12- Teaching and learning methods</p>	<ul style="list-style-type: none"> <li>Modified Lectures</li> <li>Small Group discussion</li> </ul> <table border="1" data-bbox="651 544 1401 1081"> <thead> <tr> <th colspan="2">طرق التدريس</th> <th colspan="2">نواتج التعلم للمقرر</th> </tr> <tr> <th>Small Group discussion</th> <th>Modified Lectures</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>✓</td> <td>✓</td> <td>2.a.1</td> <td rowspan="4">المعرفة والفهم</td> </tr> <tr> <td>✓</td> <td>✓</td> <td>2.a.2</td> </tr> <tr> <td>✓</td> <td>✓</td> <td>2.a.3</td> </tr> <tr> <td>✓</td> <td>✓</td> <td>2.a.4</td> </tr> <tr> <td>✓</td> <td>✓</td> <td>2.b.1</td> <td>المهارات</td> </tr> <tr> <td>✓</td> <td>✓</td> <td>2.b.2</td> <td>الذهنية</td> </tr> <tr> <td>✓</td> <td></td> <td>2.d.1</td> <td>المهارات العامة</td> </tr> </tbody> </table>	طرق التدريس		نواتج التعلم للمقرر		Small Group discussion	Modified Lectures			✓	✓	2.a.1	المعرفة والفهم	✓	✓	2.a.2	✓	✓	2.a.3	✓	✓	2.a.4	✓	✓	2.b.1	المهارات	✓	✓	2.b.2	الذهنية	✓		2.d.1	المهارات العامة
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<p>13- Student evaluation:</p>																																		
<p>D- The methods used</p>	<ul style="list-style-type: none"> <li>Written Exam: Assess Knowledge &amp; Understanding and intellectual skills</li> <li>Oral Exam: Assess Knowledge &amp; Understanding, intellectual and general &amp; transferable skills</li> </ul>																																	
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طرق التقويم		نواتج التعلم للمقرر																																
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✓		2.d.1	المهارات العامة																															
<p>E- Timing</p>	<p>April or October</p>																																	



F- Distribution of grades	<ul style="list-style-type: none"><li>• Written Exam: 30 marks</li><li>• Oral Exam: 20 marks</li></ul>
14-	List of textbooks and references:
D-	

Course coordinator:  
Head of the Scientific Department Council Professor Hosny Abd El Rahman





توصيف مقرر مقدمة في علم ميكانيكا الحركة

University: Benha

Faculty of Medicine

Department: Sports Medicine

<b>15- Course information</b>		
<b>Code: SM 611</b>	<b>Course name: مقدمة في علم ميكانيكا الحركة</b>	<b>Grade/ Level: Master of Sports Medicine</b>
<b>Number of modules: 1 theoretical credit hour</b>		

Department offering the program: Sports Medicine •

Date of specification approval: department council, date 9/2020. •

Faculty council date 15/9/2020

**Authorization date of course specification:2020-2021**

- **Allocated marks: 50**
- **Course duration: 15 weeks of teaching.**
- **Teaching hours: 1 hours / week 15 total teaching hours.**

<b>16- Goal of the Course:</b>	To provide the postgraduate with the advanced knowledge of biomechanics essential for the practice of Sports Medicine & Traumatology
<b>17- Target educational output:</b>	



<b>I- Knowledge and understanding:</b>	<b>2.a.1 List the recent advances in the abnormal structure, function, growth and development of musculoskeletal system.</b> <b>2.a.2 Mention recent advances in biomechanics.</b>
<b>J- Intellectual skills:</b>	<b>2.b.1. Interpret data acquired to understand applied physiology and biochemical reactions of musculoskeletal system.</b> <b>2.b.2 innovate nontraditional solutions to for musculoskeletal &amp; traumatology problems.</b>
<b>K- Professional and practical skills:</b>	
<b>L- General &amp; Transferable skills</b>	<b>2.d.1 Utilize effectively various computer based instruction tools and E-learning of biomechanics and utilize a variety of computer-based self assessment tools.</b>

<b>18- Course content:</b>	<ol style="list-style-type: none"> <li>1- Biomechanics in the sports field.</li> <li>2- Terminology used in the study of movement.</li> <li>3- Basic concepts and principles in mechanics</li> <li>4- Strength: to maintain equilibrium or to change motion.</li> <li>5- Kinematics of movement in a straight line.</li> </ol>
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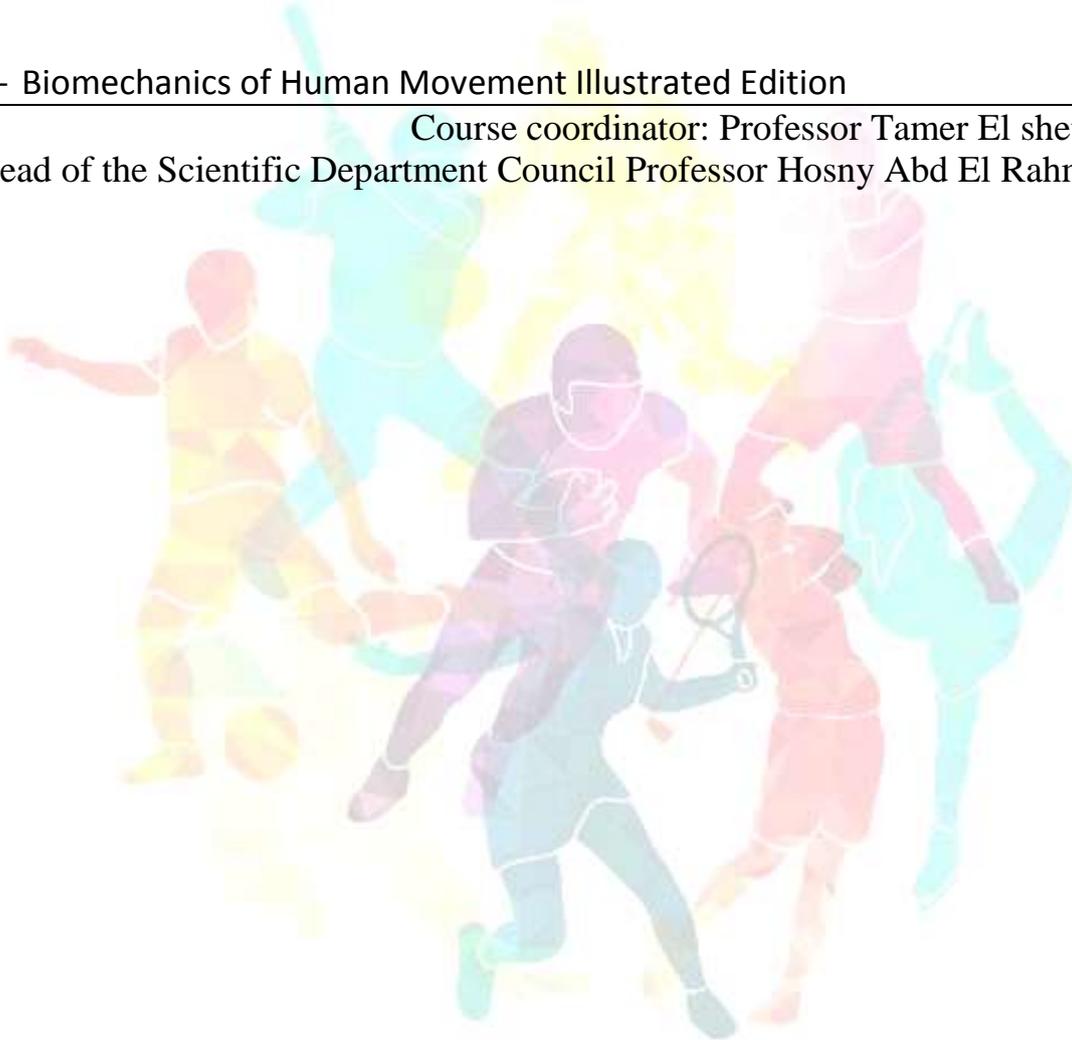
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19- Teaching and learning methods	<ul style="list-style-type: none"> <li>Modified Lectures</li> <li>Small Group discussion</li> </ul>			
	طرق التدريس		نواتج التعلم للمقرر	
	Small Group discussion	Modified Lectures		
	✓	✓	2.a.1	المعرفة
	✓	✓	2.a.2	والفهم
	✓	✓	2.b.1	المهارات
✓	✓	2.b.2	الذهنية	
✓		2.d.1	المهارات العامة	
20- Student evaluation:				
G- The methods used	<ul style="list-style-type: none"> <li>Written Exam: Assess Knowledge &amp; Understanding and intellectual skills</li> <li>Oral Exam: Assess Knowledge &amp; Understanding, intellectual and general &amp; transferable skills</li> </ul>			
	طرق التقويم		نواتج التعلم للمقرر	
	Oral Exam	Written exam		
	✓	✓	2.a.1	المعرفة
	✓	✓	2.a.2	والفهم
	✓	✓	2.b.1	المهارات
	✓	✓	2.b.2	الذهنية
✓		2.d.1	المهارات العامة	
H- Timing	April or October			



I- Distribution of grades	<ul style="list-style-type: none"><li>• Written Exam: 30 marks</li><li>• Oral Exam: 20 marks</li></ul>
21- List of textbooks and references:	
E- Lecture notes and handouts.	
F- Fundamentals of Biomechanics 2nd Edition	
G- Biomechanics of Human Movement Illustrated Edition	

Course coordinator: Professor Tamer El shetahy  
Head of the Scientific Department Council Professor Hosny Abd El Rahman





توصيف مقرر علمي في إصابات الملاعب  
لماجستير الطب الرياضي (2020-2021)

6- بيانات المقرر		
الفرقة / المستوى : ماجستير جزء ثاني	اسم المقرر : مقرر علمي في إصابات الملاعب	الرمز الكودي : 613SMs
عدد الوحدات الدراسية : نظري 10 credit hours (8.5 نظري-1.5 عملي)		التخصص : الطب الرياضي
1. Provide postgraduate students with the scientific knowledge about the concept of sports injuries . 2. Provide sufficient data about the mechanism of injury of different types of sports injuries. 3. Focus on the practical application of skills and knowledge required by today's sports diagnosis and treatment options. 4. Develop knowledge about prevention of different types of sports injuries . 5. Provides the good stepping-stone to a professional career. 6. Provide postgraduates with an opportunity to formulate research knowledge and presentation skills in these areas. 7. Gain the needed skills to assist and perform different types of operations for treatment of sports injuries		7- هدف المقرر:
1 المستهدف من تدريس المقرر : <i>By the end of the course, the student should be able to</i>		



<p>2.a.1. Mention the normal structure and function of the human musculoskeletal system.</p> <p>2.a.2. Describe the normal growth of the human musculoskeletal system.</p> <p>2.a.3. List the abnormal structure, function, growth and development of human musculoskeletal system</p> <p>2.a.4. Mention the natural history of sports related trauma Problems</p> <p>2.a.5. Describe the causation of sports related trauma and their pathogenesis</p> <p>2.a.6. Enumerate methods of fixation of different fractures and dislocations.</p> <p>2.a.7. List the clinical picture and differential diagnosis of sports related trauma.</p> <p>2.a.8. Enumerate the common diagnostic and laboratory techniques necessary to evaluate sports related trauma.</p> <p>2.a.9. Describe the various therapeutic methods/alternatives used for management of sports related trauma.</p> <p>2.a.10. Mention Ethical and legal principles of professional practice in the cases of sports related trauma</p>	<p>أ- المعرفة والفهم:</p>
<p>2.b.1. Interpret data acquired through history taking to reach a provisional diagnosis for sports related trauma.</p> <p>2.b.2. Solve the problems in the area of orthopedic surgery and traumatology</p> <p>2.b.3. Analyze and interpret data retrieved from reports (electrophysiological, endoscopic, ..... ) about sports related trauma cases.</p> <p>2.b.4. Make professional decisions in light of the available data.</p>	<p>ب- المهارات الذهنية:</p>
<p>2.c.1. Perform the basic professional clinical skills in the area of sports related trauma.</p> <p>2.c.2. Perform first aid for cases with sports related trauma.</p>	<p>ج- المهارات المهنية الخاصة بالمقرر:</p>
<p>2.d.1. Present sports related trauma cases in seminars effectively.</p> <p>2.d.2. Assess himself and identify his personal learning needs.</p> <p>2.d.3. Use different sources for information and knowledge</p> <p>2.d.4. Work coherently and successfully as a part of a team and effectively manage time.</p> <p>2d.5. Lead a team in familiar professional contexts</p> <p>2.d.6. Obtain knowledge continuously and independently in sports related trauma field.</p>	<p>د - المهارات العامة :</p>



## :Introduction

2 محتوى  
المقرر:

1. Epidemiology
2. General clinical approach
3. general principles of prevention of sports injuries
4. Muscle and soft tissue injuries:
5. Acute soft tissue injuries
6. Prevention of acute muscle injuries in sport

## :Knee injuries

1. Clinical assessment of the acutely injured knee in the athlete
2. Acute injuries of the knee
3. Functional anatomy of the knee joint
4. Acute injuries to the anterior cruciate ligament
5. Acute injuries to the posterior cruciate ligament
6. Acute injuries of the collateral ligaments of the knee
7. Acute meniscal injuries of the knee
8. Acute fractures of the knee
9. Clinical assessment of the athlete with chronic knee pain
10. Clinical biomechanics of overuse injuries of the athlete
11. surgical management of Chronic anterior knee pain in the athlete
12. surgical management of Chronic medial knee pain in the athlete
13. Surgical treatment of chronic knee pain in the athlete



### **:Leg injuries**

3

1. Clinical assessment of the acutely injured leg in the athlete
2. Acute injuries of the leg in athletes
3. Functional anatomy of the leg
4. Clinical assessment of the athlete with chronic pain in leg
5. Clinical biomechanics of overuse injuries of the leg in the athlete
6. Overuse injuries of the leg
7. Surgical treatments of chronic leg pain in athletes

### **:Ankle and foot injuries**

1. Functional anatomy of the ankle joint
2. Clinical assessment of the acutely injured ankle and foot
3. Acute fractures to the ankle and foot in athletes
4. acute ligamentous injuries of the ankle and foot of athlete
5. Prevention of acute ligamentous injuries of the ankle
6. Clinical assessment of the athlete with chronic pain in the ankle and foot
7. Sports injury
8. Clinical biomechanics of overuse injuries of the ankle and foot
9. Surgical management of Chronic heel pain in the athlete
10. Surgical management of Chronic midfoot pain in the athlete
11. surgical management of Chronic forefoot pain in the athlete
12. Surgical treatment of chronic ankle and foot pain in athlete

### **:Wrist and Hand injuries in the athlete**

1. Functional anatomy of the hand and wrist
2. Clinical biomechanics
3. Clinical assessment of acute hand and wrist injuries
4. Acute fractures of the hand and wrist
5. Acute soft tissue injuries
6. Clinical assessment of the athlete with chronic hand and wrist pain
7. Surgical treatment of chronic wrist and hand pain
8. Splinting the hand and wrist in athletes



<p style="text-align: right;"><b>:Injuries to lumbar spine in athletes</b></p> <ol style="list-style-type: none"><li>1. Functional anatomy of the lumbar spine</li><li>2. Clinical biomechanics</li><li>3. Clinical assessment of acute lower back injury</li><li>4. Acute fractures of the lumbar spine</li><li>5. Acute soft tissue injuries</li><li>6. Clinical assessment of chronic lower back pain</li><li>7. Overuse injuries of the lower back</li><li>8. Surgical treatment of chronic lower back pain</li></ol> <p style="text-align: right;"><b>:Shoulder injuries</b></p> <ol style="list-style-type: none"><li>1. Shoulder dislocation</li><li>2. Shoulder Instability</li><li>3. Shoulder impingement</li><li>4. Rotator cuff tear</li></ol> <p style="text-align: right;"><b>:Elbow injuries</b></p> <ol style="list-style-type: none"><li>1. Ligament injuries of the elbow</li><li>2. Tennis elbow</li><li>3. Golf elbow</li></ol> <p style="text-align: right;"><b>:Hip injuries</b></p> <ol style="list-style-type: none"><li>1. Labral injury of the hip</li><li>2. Pincer hip ( femero acetabular impingement(</li></ol>	4
<ol style="list-style-type: none"><li>1. lectures</li><li>2. Clinical rounds</li><li>3. Round table discussions</li><li>4. Attending operations</li></ol>	5 أساليب التعليم والتعلم
لا ينطبق	5- أساليب التعليم والتعلم للطلاب ذوي القدرات المحدودة
6- تقويم الطلاب :	



3. <b>Written exams:</b> Assess knowledge & understanding and intellectual skills.	أ- الأساليب المستخدمة
4. <b>Structured oral exams:</b> to assess knowledge and understanding, intellectual , professional and general and transferable skills.	
5. <b>Clinical exams:</b> : to assess knowledge and understanding, intellectual, practical & professional and general and transferable skills.	
• Final exam at May or November	ب- التوقيت
• Written exam 350 • Oral and practical exams 75 • Clinical Exam 75	ج- توزيع الدرجات
7- قائمة الكتب الدراسية والمراجع :	
• Lectures notes	أ- مذكرات
- <b>Essential books (text books):</b> Campbell's Operative Orthopedic, 11 <sup>th</sup> edition (Canal & Beat, 2007) 6.2- Recommended Books: Surgical exposure in orthopedic, stanle Hoppenfeld, Piet DeBoer, Richard Eric 2009 • Manual of internal fixation, 2003 • Spine Journal • British bone and joint Journal • American bone and joint Journal • Journal of hand and microsurgery Clinical Orthopedic Journal	ب- كتب ملزمة
<a href="https://www.youtube.com/channel/UCZWQHOGoaEGe0RRo5PoNf3A">https://www.youtube.com/channel/UCZWQHOGoaEGe0RRo5PoNf3A</a>	ج- قناة youtube

أستاذ المادة  
رئيس مجلس القسم العلمي



## توصيف مقرر الباطنة العامه لماجستير الطب الرياضي جزء ثاني

1. بيانات المقرر		
الفرقة / المستوى : ماجستير جزء ثاني	اسم المقرر : مقرر علمي نظري وإكلينيكي في الامراض الباطنة وتخصصاتها العامه	الرمز الكودي : SM 612
عدد الوحدات الدراسية : نظري 10 credit hours		التخصص : الطب الرياضي
1. Respond to the educational and research training needs of doctors with a special interest in sports Medicine. 2. Prepare a sports medicine physician capable of making a proper diagnosis of different sports Medicine diseases on the basis of adequate history, physical examination and interpretation of supportive investigation. 3. Provide graduates with enough knowledge about disorders of internal organs relevant to sports Medicine 4. Improve students' standards of awareness of self-education as researchers and specialists in the field of sports Medicine.		2. هدف المقرر:
3. المستهدف من تدريس المقرر :		
By the end of the course, the student should be able to: By the end of the course, students should be able to: 2.a.1. Discuss cardiovascular system: heart rate, rheumatic fever, coronary heart disease, hypertension, infective endocarditis, pulmonary embolism, pulmonary hypertension and blood disease (anemia and Bleeding diathesis). 2.a.2. Define gastrointestinal hemorrhage, dyspepsia, chronic diarrhea, hepatitis (acute and chronic), Jaundice, inflammatory bowel diseases, renal failure, glomerulonephritis, nephritic, nephritic syndrome, 2.a.3. Discuss endocrinal disorders of the pituitary, thyroid, suprarenal and parathyroid glands 2.a.4. mention causes and presentations of asthma, pneumonia, obstructive pulmonary disease, pleural effusion, infection in the immune compromised host. 2.a.5. Define ethical and medico-legal basics of internal medicine related to Rheumatology, Rehabilitation and Physical Medicine. 2.a.6. describe professional knowledge, and theories in the field of internal medicine relevant to Rheumatology, Rehabilitation and Physical Medicine. 2.a.7. list basics of quality and professional performance. 2.a.8. Describe effect of professional performance on community health and environment protection.		أ- المعرفة والفهم:



<p>2.b.1. classify the scientific basis of patients' evaluation in the differential diagnosis of rheumatic diseases.</p> <p>2.b.2. List indications and laboratory tests and imaging procedures used in diagnosis and management of rheumatic diseases.</p> <p>2.b.3. list risk factors, problems, in chronological manner.</p> <p>2.b.4. assess specific problems in atypical situations.</p> <p>2.b.5. assess practical decisions according to available knowledge.</p>	<p>ب- المهارات الذهنية:</p>
<p>2.c.1. Examine patients including specific examinations of structure and function of musculoskeletal and neurological systems.</p> <p>2.c.2. apply controlled clinical trials in rheumatic diseases.</p> <p>2.c.3. Apply medical practical skills and recent techniques in the field of Rheumatology, Rehabilitation and Physical Medicine.</p> <p>2.c.4. write practical reports, investigational and therapeutic programs in the management of rheumatic and musculoskeletal disorders.</p>	<p>ج- المهارات المهنية الخاصة بالمقرر:</p>
<p>2.d.1. use information and communication technology effectively in the field of Internal Medicine to conduct researches in Sports Medicine.</p> <p>2.d.2. show continuous self-learning requirements following updates in the practice of Internal Medicine.</p> <p>2.d.3. Communicate ideas effectively with other specialties.</p> <p>2.d.4. apply scientific meetings of different sources for achieving knowledge and information.</p> <p>2.d.5. Apply working in a team and time mapping, operate with other sport medicine team and be able to analyze their performance.</p>	<p>د - المهارات العامة:</p>



ILOs	% of total	Total (hrs)	Small group (hrs)	Lectures (hrs)	Topic	4. محتوى المقرر:
2.a.5,2.a.8, 2.b.1, 2.b.2, 2.b.3, 2.b.4 <b>2.c.1,2.d.4</b>	20%	7.5	3	4.5	<b>1) NEUROLOGY</b> - Hemiplegia, - Paraplegia, - Peripheral neuropathy, - Myopathy, - Cranial nerves, Parkinsonism.	
2.a.1, 2.b.1, 2.b.2, 2.b.3, 2.b.4, 2.b.5	18%	7.5	3.5	4	<b>2) CARDIOLOGY</b> - Hypertension, - Heart failure, - Pericardial effusion, - Ischemic heart disease.	
2.a.1, 2.a.2, 2.a.3, 2.a.4, 2.a.5, 2.b.5, 2.d.2	7%	2.5	1	1.5	<b>3) NEPHROLOGY.</b> - Glomerulonephritis, - Nephrotic syndrome, - Renal failure, - Hematuria.	
2.a.4. 2.b.1, 2.b.2, 2.b.3, 2.b.5	17%	6	2	4	<b>4) CHEST DISEASES</b> - Tuberculosis, - Pleural diseases, - Bronchial asthma, - Chronic obstructive pulmonary disease (COPD), - Interstitial pulmonary disease,	
2.a.6, 2.b.3, 2.b.5, 2.b.4	4%	1.5	.5	1	<b>5) BLOOD DISEASES</b> - Anemia, - Hemorrhagic blood diseases, - Iron overload.	
2.a.3, 2.b.5, 2.b.4	13%	5	1.5	3.5	<b>6) ENDOCRINE DISEASES</b> - Diabetes, - Thyroid diseases, - Suprarenal gland diseases.	
2.a.7, 2.b.1 2.c.1, 2.c.2, 2.c.3, 2.c.4 2.d.1,2.d.3, 2.d.5	7%	2.5	1	1.5	<b>7) RHEUMATOLOGY</b> - Gout	
2.a.2, 2.b.4	7%	2.5	1	1.5	<b>8) ACID-BASE BALANCE</b>	
2.a.2, 2.b.5,	7%	2.5	1	1.5	<b>9) Na<sup>+</sup> &amp; K<sup>+</sup> ABNORMALITIES</b>	
	100%	37.5	14.5	23	<b>Total</b>	



1. Modified Lectures
2. Tutorial & Seminars
3. Clinical Classes

5. أساليب  
التعليم  
والتعلم

مصفوفة طرق التدريس مع نواتج التعلم لمقرر الباطنة العامة  
الباطنة العامة

طرق التدريس			نواتج التعلم للمقرر	
Clinical Classes	Seminars Tutorial	Modified Lectures		
■	■	■	2.a.1	المعرفة والفهم
■	■	■	2.a.2	
■	■	■	2.a.3	
■	■	■	2.a.4	
■	■	■	2.a.5	
■	■	■	2.a.6	
■	■	■	2.a.7	
■	■	■	2.a.8	
■	■	■	2.b.1	المهارات الذهنية
■	■	■	2.b.2	
■	■	■	2.b.3	
■	■	■	2.b.4	
■	■	■	2.b.5	
■	■	■	2.c.1	المهارات المهنية
■	■	■	2.c.2	
■	■	■	2.c.3	
■	■	■	4 2.c	
■	■	■	2.d.1	المهارات العامة
■	■	■	2.d.2	
■	■	■	2.d.3	
■	■	■	2.d.4	
■	■	■	2.d.5	

6- تقويم الطلاب :



مصفوفة طرق التقويم مع نواتج التعلم لمقرر الباطنة العامة

أ- الأساليب المستخدمة

Clinical Exan	طرق التقويم		نواتج التعلم للمقرر
	Structured Oral Exam	am Written e	
■	■	■	2.a.1
■	■	■	2.a.2
■	■	■	2.a.3
■	■	■	2.a.4
■	■	■	2.a.5
■	■	■	2.a.6
■	■	■	2.a.7
■	■	■	2.a.8
■	■	■	2.b.1
■	■	■	2.b.2
■	■	■	2.b.3
■	■	■	2.b.4
■	■	■	2.b.5
■			2.c.1
■			2.c.2
■			2.c.3
■			2.c.4
■			2.d.1
■	■		2.d.2
■	■		2.d.3
■	■		2.d.4
■	■		2.d.5
■			2.a.1
■			2.a.2

1. **Written exams:** Assess knowledge & understanding and intellectual skills.

2. **Structured oral exams:** to assess knowledge and understanding, intellectual , professional and general and transferable skills.

- Final exam at May or November

ب- التوقيت

- Examination Marks allocated
- Written 350
- Oral 75
- Clinical 75

ج- توزيع الدرجات



7- قائمة الكتب الدراسية والمراجع :

• Lectures notes	أ- مذكرات
<b>Harrison's Principles of Internal Medicine, Twentieth Edition (Vol.1 &amp; Vol.2) 20th Edition</b> Jameson JL, Fauci A, Kasper D , et al (2018): Harrison's Principles of Internal Medicine. (Vol.1 & Vol.2). Twentieth Edition McGraw-Hill Education.	ب- كتب ملزمة
<b>Davidson's Principles and Practice of Medicine 23rd Edition</b> Ralston, S. H., Penman, I. D., Strachan, M. W. J., & Hobson, R. (Eds.). (2018). <i>Davidson's principles and practice of medicine</i> (23rd ed.). Elsevier Health Sciences.	ج- كتب مقترحة
<a href="https://www.coursera.org/learn">https://www.coursera.org/learn</a>	د - دوريات علمية أو نشرات



### Course Contents/ILOs Matrix

ILOs Cours	a. Knowledge and understanding								2.b. Intellectual Skills					2.c.3. Practical & Clinical skills				2d. General and transferable Skills				
	2.a.1	2.a.2	2.a.3	2.a.4	2.a.5	2.a.6	2.a.7	2.a.8	2.b.1	2.b.2	2.b.3	2.b.4	2.b.5	2.c.1	2.c.2	2.c.3	2.c.4	2.d.1	2.d.2	2.d.3	2.d.4	2.d.5
NEUROLOGY					x			x	x	x	x	x		x							x	
CARDIOLOGY	x								x	x	x	x										
Nephrology	x	x	x	x	x								x						x			
CHEST DISEASES				x					x	x	x		x									
Blood Diseases						x					x	x	x									
ENDOCRINE DISEASES			x									x	x									
RHEUMATOLOGY							x		x					x	x	x	x	x		x		x
Acid-base balance		x										x										
Na+ & K+ ABNORMALITIES		x											x									

رئيس اقسام الباطنة العامة  
أ.د / محمد احمد العسال



جامعة بنها  
كلية الطب البشري  
قسم طب الطوارئ

توصيف مقرر طب الطوارئ  
لماجستير الطب الرياضي جزء ثاني

6. بيانات المقرر		
الفرقة / المستوى : ماجستير جزء ثاني	اسم المقرر : مقرر علمي في طب الطوارئ	الرمز الكودي : SM 614
عدد الوحدات الدراسية : نظري 6 credit hours		التخصص : الطب الرياضي
5. Respond to the educational and research training needs of doctors with a special interest in sports Medicine. 6. Prepare a sports medicine physician capable of making a proper diagnosis of different sports Medicine diseases on the basis of adequate management of emergency cases. 7. Provide graduates with enough knowledge about disorders of emergency medicine relevant to sports Medicine 8. Improve students' standards of awareness of self-education as researchers and specialists in the field of sports Medicine. 9. To produce sports medicine physicians who are prepared to understand the basic scientific knowledge essential for establishing & maintaining good doctor/ patient relationship. 10. To apply analytical and critical methods for appraisal of knowledge in the field of sports medicine 11. To provide Lifelong learning competencies necessary for continuous professional development		7. هدف المقرر:
8. المستهدف من تدريس المقرر :		
<i>By the end of the course, the student should be able to:</i>		



2. a.1. Describe the metabolic response to injury.
2. a.2. List different types of shock.
- 2.a.3. Explain indications of blood transfusion.
- 2.a.4. List complications of blood transfusion.
- 2.a.5 Flashlight on normal wound healing
- 2.a.6 Enumerate different abdominal incisions.
2. a.7. RECOGNIZE the physiologic mechanisms that explain key findings in the history and physical exam during emergency
2. a.8. describe the etiologies, pathophysiology, clinical features, differential diagnosis and related diagnostic testing and management of common inpatient emergency medical conditions.
- 2.a.9. list the indications for the most commonly performed emergent imaging examinations.
- 2.a.10. demonstrate knowledge of human anatomy by recognizing key structures on various imaging modalities

أ- المعرفة  
والفهم:



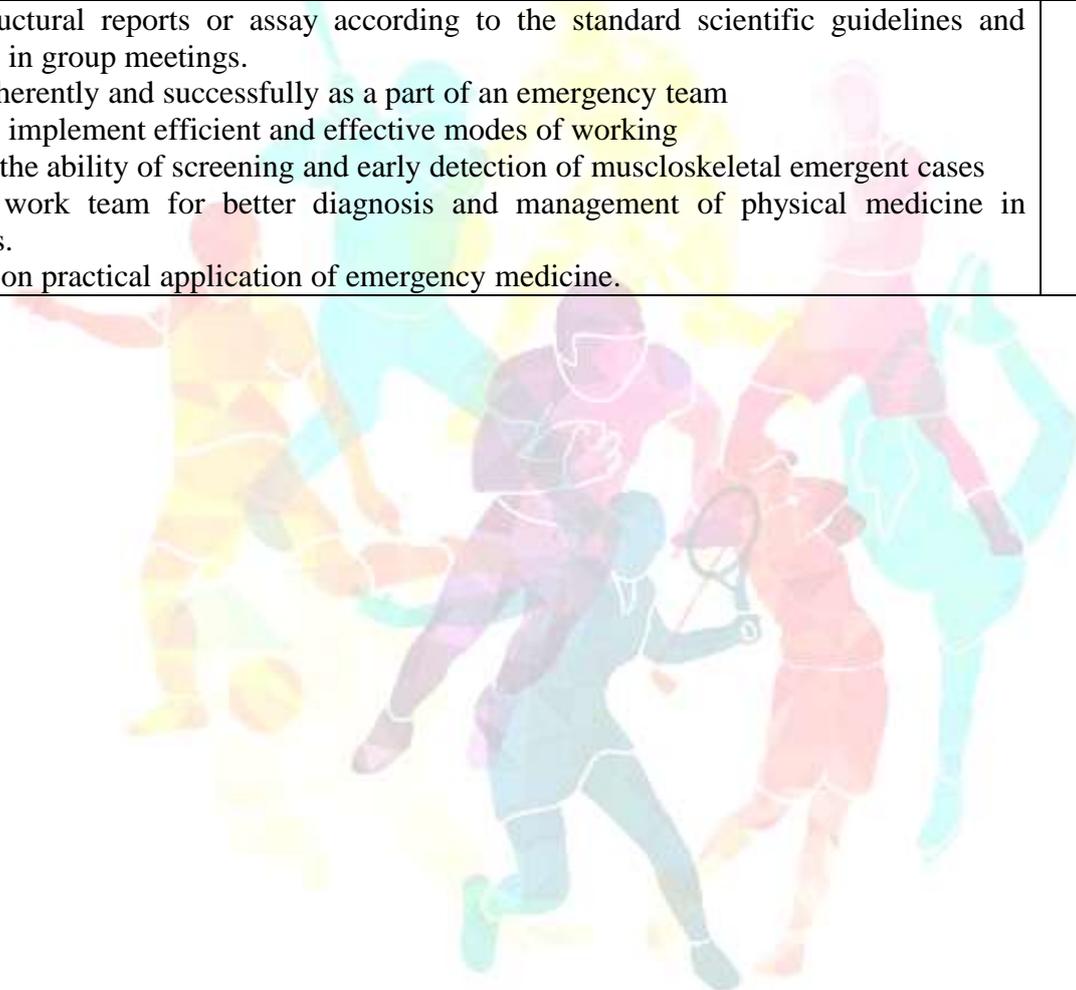


- 2.b.1 complete patient history and physical examination in logical manner .
- 2.b.2 evaluate and prioritize problems with which a patients presents.
- 2.b.3 formulate DD based on the findings from the history and physical examination and apply DD to help guide in emergency situations.
- 2.b.4 formulate an initial therapeutic plan and explain the extent to which the therapeutic plan is based on pathophysiological reasoning and scientific evidence of effectivness.
- 2.b.5 advise patients and colleagues on the risks, benefits, limitations and indications of the most commonly performed imaging examinations during emergency.
- 2.b.6 identify critical and high priority imaging findings on the most commonly performed imaging exams and discuss their importance in clinical patient emergency management.
- 2.b.7 Estimate the principles of antibiotic use and spectrum.
- 2.b.8 Demonstrate different congenital malformations.
- 2.b.9 Formulate informed consent and surgical ethics.
- 2.b.10 Interpret different imaging methods and proper diagnosis of surgical diseases.
- 2.b.11 Estimate methods of providence nutritional supports..
- 2.b.12 Asses the priority of patient in early management of trauma.
- 2.b.13 Identify principles of triage.
- 2.b.14 Demonstrate primary and secondary survey of poly-traumatized patient.
- 2.b.15 Interpret physiology of cerebral blood flow and pathology of raised intra-cranial tension.
- 2.b.16 Identify types of cerebral injury and different surgical aspects.
- 2.b.17 Classify facial fractures.
- 2.b.18 Evaluate thoracic and abdominal injury as liver and spleen trauma and indications of thoracotomy and abdominal exploration.
- 2.b.19 Classify fractures of extremities.
- 2.b.20 Asses area and depth of burn.
- 2.b.21 Classify skin flaps.
- 2.b.22. Classify musculoskeletal, cutaneous and subcutaneous tumors and swellings and how to manage.

ب- المهارات  
الذهنية:



<p>2.c.1. Examine patients including specific examinations of structure and function of musculoskeletal and neurological systems.</p> <p>2.c.2. apply controlled clinical trials in emergent rheumatic diseases.</p> <p>2.c.3. Apply medical practical skills and recent techniques in the field of emergency cases of Rehabilitation and Physical Medicine.</p> <p>2.c.4. write practical reports, investigational and therapeutic programs in the management of emergent musculoskeletal disorders.</p>	<p>ج- المهارات المهنية الخاصة بالمقرر:</p>
<p>2.d.1.write structural reports or assay according to the standard scientific guidelines and present reports in group meetings.</p> <p>2.d.2. work coherently and successfully as a part of an emergency team</p> <p>2.d.3. plan and implement efficient and effective modes of working</p> <p>2.d.4 Develop the ability of screening and early detection of musculoskeletal emergent cases</p> <p>2.d.5 Lead a work team for better diagnosis and management of physical medicine in emergent cases.</p> <p>2.d.6 Exercise on practical application of emergency medicine.</p>	<p>د - المهارات العامة:</p>





Topic	Lectures (hrs)	Small group (hrs)	Total (hrs)	% of total	9. محتوى المقرر:
General surgical emergencies	10 hr	4.5 hr	14.5	5.37	
Anaesthesia & ICU	9hr	5hr	14	5.18	
Trauma ATLS	10 hr	4.5 hr	14.5	5.37	
ORTHOPEDIC EMERGENCIES	9hr	4.5 hr	13.5	5	
ENT emergencies	10 hr	4hr	14	5.18	
Neurosurgical emergencies	9hr	4.5 hr	13.5	5	
Cardiothoracic surgical emergencies	10 hr	6hr	16	5.92	
Ophthalmological emergencies	9hr	4.5 hr	13.5	5	
Obstetric & gynecological emergencies	10 hr	3hr	13	4.81	
Urological emergencies	10 hr	4.5 hr	14.5	5.37	
Internal medicine emergencies	9hr	2hr	11	4.07	
Cardiac emergencies	10 hr	4.5 hr	14.5	5.37	
Chest emergencies	9hr	7hr	16	5.92	
Neuropsychiatry emergencies	10 hr	4.5 hr	14.5	5.37	
Pediatric emergencies	9hr	4.5 hr	13.5	5	
Diagnostic radiological emergencies	10 hr	9hr	19	7.03	
X Infection control	9hr	4.5 hr	13.5	5	
Medical ethics	10 hr	4.5 hr	14.5	5.37	
TRANSPLANTATION	8hr	4.5 hr	13.5	5	
<b>Total</b>	<b>180 hr</b>	<b>90 hr</b>	<b>270 hr</b>	<b>100</b>	



4. Modified Lectures
5. Tutorial & Seminars
6. Clinical

10. أساليب  
التعليم  
والتعلم

مصفوفة طرق التدريس مع نواتج التعلم لمقرر طب الطوارئ

طرق التدريس			نواتج التعلم للمقرر
Clinical	Seminars Tutorial	Modified Lectures	
■	■	■	2.a.1
■	■	■	2.a.2
■	■	■	2.a.3
■	■	■	2.a.4
■	■	■	2.a.5
■	■	■	2.a.6
■	■	■	2.a.7
■	■	■	2.a.8
■	■	■	2.a.9
■	■	■	2.a.10
■	■	■	2.b.1
■	■	■	2.b.2
■	■	■	2.b.3
■	■	■	2.b.4
■	■	■	2.b.5
■	■	■	2.b.6
■	■	■	2.b.7
■	■	■	2.b.8
■	■	■	2.b.9
■	■	■	2.b.10
■	■	■	2.b.11
■	■	■	2.b.12
■	■	■	2.b.13
■	■	■	2.b.14
■	■	■	5 2.b.
■	■	■	2.b.16
■	■	■	2.b.17
■	■	■	2.b.18
■	■	■	2.b.19
■	■	■	2.b.20
■	■	■	2.b.21
■	■	■	2.b.22
■	■	■	2.c.1
■	■	■	2.c.2
■	■	■	2.c.3
■	■	■	2.c.4
■	■	■	2.d.1
■	■	■	2.d.2
■	■	■	2.d.3
■	■	■	2.d.4
■	■	■	2.d.5
■	■	■	2.d.6

6- تقويم الطلاب :



مصفوفة طرق التقويم مع نواتج التعلم لمقرر طب الطوارئ

أ- الأساليب المستخدمة

Clinical Exam	طرق التقويم		نواتج التعلم للمقرر
	Structured Oral Exam	Written exam	
■	■	■	2.a.1
■	■	■	2.a.2
■	■	■	2.a.3
■	■	■	2.a.4
■	■	■	2.a.5
■	■	■	2.a.6
■	■	■	2.a.7
■	■	■	2.a.8
■	■	■	2.a.9
■	■	■	2.a.10
■	■	■	2.b.1
■	■	■	2.b.2
■	■	■	2.b.3
■	■	■	2.b.4
■	■	■	2.b.5
■	■	■	2.b.6
■	■	■	2.b.7
■	■	■	2.b.8
■	■	■	2.b.9
■	■	■	2.b.10
■	■	■	2.b.11
■	■	■	2.b.12
■	■	■	2.b.13
■	■	■	2.b.14
■	■	■	2.b.15
■	■	■	2.b.16
■	■	■	2.b.17
■	■	■	2.b.18
■	■	■	2.b.19
■	■	■	2.b.20
■	■	■	2.b.21
■	■	■	2.b.22
■			2.c.1
■			2.c.2
■			2.c.3
■			.c.4
■	■		2.d.1
■	■		2.d.2
■	■		2.d.3
■	■		2.d.4
■	■		2.d.5
■	■		2.d.6

المعرفة والفهم

المهارات الذهنية

المهارات المهنية

المهارات العامة

- Final exam at May or November

ب- التوقيت



<ul style="list-style-type: none"><li>• Examination Marks allocated<ul style="list-style-type: none"><li>a. Written 200</li><li>b. Oral 50</li><li>c. Clinical 50</li></ul></li></ul> <p>Total 300</p>	ج- توزيع الدرجات
7- قائمة الكتب الدراسية والمراجع :	
<ul style="list-style-type: none"><li>• Lectures notes</li></ul>	أ- مذكرات
<p><b>Harrison's Principles of Internal Medicine, Twentieth Edition (Vol.1 &amp; Vol.2) 20th Edition</b></p> <p>Jameson JL, Fauci A, Kasper D , et al (2018): Harrison's Principles of Internal Medicine. (Vol.1 &amp; Vol.2). Twentieth Edition McGraw-Hill Education.</p> <p><b>Bailey&amp; Love's practice of Surgery, 2013.</b> 26<sup>th</sup> ed. By Norman S. Williams, Christopher J. K bulstrode and P. Ronan O'Connell, CRC press.</p>	ب- كتب ملزمة



Davidson's Principles and Practice of Medicine **23rd Edition**

Ralston, S. H., Penman, I. D., Strachan, M. W. J., & Hobson, R. (Eds.).  
(2018). *Davidson's principles and practice of medicine* (23rd ed.). Elsevier Health Sciences.

Essential General surgical operations, 2007.

2<sup>nd</sup> ed. By R. M. Kirk and marc C. Winslet, Churchill Livingstone.

Current Medical Diagnosis & Treatment, 2013.

54<sup>th</sup> ed. By Maxine papadakis, stephen J. Mcphee and Michael w. Rabow,  
McGraw Hill Medical.

Clinical surgery, 2012.

3<sup>rd</sup> ed. By Michael M. Henry and Jeremy N. Thompson, Saunders.

Sabiston text book of surgery: The biological basis of modern surgical practice,  
2012.

19<sup>th</sup> ed. By Courtney M. Townsend, R. David Beauchamp, b. Mark Evers and  
Kenneth L. Mattox, Saunders.

ج- كتب مقترحة

<https://www.coursera.org/learn>

د - دوريات  
علمية أو نشرات

رئيس اقسام طب الطوارئ  
أ.د / جمال السيد صالح



## توصيف مقرر الأمراض الجلدية لماجستير الطب الرياضي جزء ثاني

11. بيانات المقرر		
الفرقة / المستوى : ماجستير جزء ثاني	اسم المقرر : مقرر علمي نظري وإكلينيكي في الأمراض الجلدية	الرمز الكودي : SM 615
عدد الوحدات الدراسية : نظري 2 credit hours		التخصص : الطب الرياضي
12. Respond to the educational and research training needs of doctors with a special interest in sports Medicine. 13. Prepare a sports medicine physician capable of making a proper diagnosis of different sports Medicine diseases on the basis of adequate history, physical examination and interpretation of supportive investigation. 14. Provide graduates with enough knowledge about dermatologic disorders relevant to sports Medicine 15. Identify dermatological, venereal and andrological problems and find out solutions 16. Improve students' standards of awareness of self-education as researchers and specialists in the field of sports Medicine.		12. هدف المقرر:
13. المستهدف من تدريس المقرر :		
By the end of the course, the student should be able to:		
3.a.1 <b>Describe</b> the normal development, structure and function of the human integumentary system on the macro and microscopic levels. 3.a.2 <b>Define</b> primary and secondary skin lesions, common dermatologic and dermatopathologic terms. 3.a.3 <b>Discuss</b> ethical guidelines for dermatology practice. 3.a.4 <b>Illustrate</b> the principals of diagnostic, therapeutic and preventive tools of various dermatological illnesses. 3.a.5 <b>Illustrate</b> the pathogenesis of common skin diseases. 3.a.6 <b>Discuss</b> common vaccines, topical and systemic drugs used in dermatology as regard indications, contraindications, mechanism of action, interactions, side effects and uses. 3.a.7 <b>Explain</b> basic knowledge of cosmetic and surgical dermatology and laser therapies.	أ- المعرفة والفهم:	



<p>3.b.1 <b>Interpret</b> data collected from history taking, clinical and histopathological examination and laboratory tests to diagnose different skin diseases.</p> <p>3.b.2 <b>Analyze</b> the available data to choose the suitable and cost effective lab test for diagnosing skin diseases.</p> <p>3.b.3 <b>Analyze</b> the available data to <b>choose</b> the suitable therapeutic option for different dermatoses.</p> <p>3.b.4 <b>Evaluate</b> cases of infectious diseases and assess infectivity of these cases</p> <p>3.b.5 <b>Evaluate</b> the indications and the risk of any intervention (biopsy taking, medical treatment, physical treatment, cosmetic procedure or dermatologic surgery) according to the procedure and the general condition of the patient.</p>	<p>ب- المهارات الذهنية:</p>
<p>3.c.1 <b>Collect</b> necessary data during history taking by asking focused questions to help the patient to recall all important data which may help in managing the case with complete respect.</p> <p>3.c.2 <b>Perform</b> physical examination of skin, hair, nails and lymph nodes and discriminate between normal and abnormal findings.</p> <p>3.c.3 <b>Perform</b> basic and some advanced diagnostic and therapeutic procedures with perfection of basic techniques such as biopsy taking, nail scraping, KOH staining, hair pull test and electrocautery.</p> <p>3.c.4 <b>Write</b> medical reports about the cases with skin diseases including personal information, skin type, complaint, history of present illness, past and family history</p>	<p>ج- المهارات المهنية الخاصة بالمقرر:</p>
<p>3.d.1 <b>2.d.1 Communicate</b> effectively with colleagues, patients and health care providers with care and respect.</p> <p>3.d.2 <b>Use</b> standard computer programs effectively in preparing research assignment and in demonstrating data in scientific symposium</p> <p>3.d.3 <b>Enhance</b> his/her lifelong learning skills by using the recent technological facilities</p> <p>3.d.4 <b>Analyze</b> own practical experience to recognize his/her strengths, deficiencies, and limits in knowledge and expertise.</p> <p>3.d.5 <b>Work</b> coherently and successfully as a part of a team to research and prepare a scientific topic or solve a problem.</p> <p>3.d.6 <b>Use</b> different sources of information to obtain data.</p> <p>3.d.7 <b>Demonstrate</b> respect to all patients irrespective of their socio-</p>	<p>د - المهارات العامة:</p>



ILOS	% of total	Total	Practical	Lectures	Topic	4- محتوى المقرر:
3.a.1 3.a.2 3.a.3	3.8	4		4	<ul style="list-style-type: none"> <li>Diagnosis of skin diseases</li> </ul>	
3.a.4 3.a.5 3.a.6 3.b.1 3.b.2	8.9	10	5	5	<ul style="list-style-type: none"> <li>Allergic skin disorders</li> </ul>	
3.a.4 3.a.5 3.a.6 3.b.4	11.6	13	6	7	Urticarias	
3.a.4 3.a.5 3.a.6 3.b.4	8.9	10	5	5	Disorders of blood vessels a- Rosacea Flushing	
3.a.4 3.a.5 3.a.6 3.c.1 3.c.2 3.c.3	13.3	15	5	10	1- Disorders of sweat glands a- Hyperhidrosis <ul style="list-style-type: none"> <li>Miliaria</li> </ul>	
3.a.4 3.a.5 3.a.6 3.b.1 3.b.2	3.6	4	2.5	2.5	Disorders due to physical agents a- Dermatoses due to heat and cold Dermatoses due to UV radiation	
3.a.4 3.a.5 3.a.6 3.b.3	26.7	30	10	20	<b>Infections and infestations</b> <ul style="list-style-type: none"> <li>Cutaneous pyogenic infections</li> <li>Cutaneous viral infections</li> <li>Mycology</li> <li>Parasitic skin diseases</li> </ul>	
3.a.4 3.a.5 3.a.6	3.6	4	2	2	Regional dermatology	
3.a.4 3.a.5 3.a.6	11.1	12.5	7.5	5	Sexual maturation (puberty) Puberty disorders	
3.a.4 3.a.5 3.a.6	3.6	4	2	2	Testicular torsion	
3.a.7	4.4	5	-	5	Varicocele	
	100%	112.5	45	67.5	Total	



7. Modified Lectures
8. Tutorial & Seminars
- 9.

14. أساليب  
التعليم  
والتعلم

مصفوفة طرق التدريس مع نواتج التعلم لمقرر الباطنة العامة  
الباطنة العامة

طرق التدريس			نواتج التعلم للمقرر	
Clinical	Seminars Tutorial	Modified Lectures		
■	■	■	2.a.1	المعرفة والفهم
■	■	■	2.a.2	
■	■	■	2.a.3	
■	■	■	2.a.4	
■	■	■	2.a.5	
■	■	■	2.a.6	
■	■	■	2.a.7	
■	■	■	2.b.1	المهارات الذهنية
■	■	■	2.b.2	
■	■	■	2.b.3	
■	■	■	2.b.4	
■	■	■	2.b.5	
■	■	■	2.c.1	المهارات المهنية
■	■	■	2.c.2	
■	■	■	2.c.3	
■	■	■	2.c.4	
■	■	■	2.d.1	المهارات العامة
■	■	■	2.d.2	
■	■	■	2.d.3	
■	■	■	2.d.4	
■	■	■	2.d.5	
■	■	■	2.d.6	
■	■	■	2.d.7	

6- تقويم الطلاب :



مصفوفة طرق التقويم مع نواتج التعلم لمقرر الباطنة العامة

أ- الأساليب المستخدمة

طرق التقويم			نواتج التعلم للمقرر	
Clinical exam	Structured Oral Exam	Written exam		
■	■	■	2.a.1	المعرفة والفهم
■	■	■	2.a.2	
■	■	■	2.a.3	
■	■	■	2.a.4	
■	■	■	2.a.5	
■	■	■	2.a.6	
■	■	■	2.a.7	
■	■	■	2.b.1	المهارات الذهنية
■	■	■	2.b.2	
■	■	■	2.b.3	
■	■	■	2.b.4	
■	■	■	2.b.5	
■			2.c.1	المهارات المهنية
■			2.c.2	
■			2.c.3	
■			2.c.4	
■	■		2.d.1	المهارات العامة
■	■		2.d.2	
■	■		2.d.3	
■	■		2.d.4	
■	■		2.d.5	
■	■		2.d.6	
■	■		2.d.7	

- Final exam at May or November

ب- التوقيت

- Examination Marks allocated
- a- Written 50
- b- Oral 25
- c-clinical exam: 25 marks
- Total 100

ج- توزيع الدرجات

7- قائمة الكتب الدراسية والمراجع :

- Lectures notes prepared by staff members in the department
- Mahmoud El Bayoumi Textbook of Dermatology (2011).

أ- مذكرات



<ul style="list-style-type: none"><li>Jean L. Bologna, Joseph L. Jorizzo, and Julie V. Schaffer. Bologna: dermatology 5<sup>th</sup> edition .2 volume .Mosby Elsevier publisher . Publication date June: 2020.</li></ul> <p>Skin Disease : Diagnosis and Treatment by Thomas P. Habif, James I. Campbell and Shane Chapman, Publisher: C.V. Mosby Co. Year Published: 2015.</p> <ul style="list-style-type: none"><li>Abdel Hamid, I. A. (2016): Advances in sexual medicine, Drug discovery issues. Puhlised by research signpost, ISBN:978-81-308-0307-4</li></ul>	ب- كتب ملزمة
<ul style="list-style-type: none"><li><u>William D. James , Timothy Berger , Dirk Elston.</u> Andrews' Diseases of the Skin: Clinical dermatology . 12<sup>th</sup> edition . march 24,2016.</li></ul> <p>David E Elder. Lever's Histopathology of the Skin Rosalie E lenitsas , Bennett L Johnson , George F Murphy (eds).10<sup>th</sup> edition .Lippincott :Williams &amp;Wilkins.20</p>	ج- كتب مقترحة
<p><b>Periodicals and Web Sites:</b> Journal of American Academy of Dermatology Clinics in dermatology International journal of dermatology British journal of dermatology <a href="http://www.Sciencedirect.com">www.Sciencedirect.com</a> <a href="http://www.pubmed.com">www.pubmed.com</a> <a href="http://www.Freebooks4doctors.com">www.Freebooks4doctors.com</a> <a href="http://www.medescape.com">www.medescape.com</a> <a href="http://www.Blackwell.com">www.Blackwell.com</a></p>	د – دوريات علمية أو نشرات

رئيس القسم/  
أ.د حنان صبرى





كلية: الطب البشرى  
قسم: الامراض العصبية والطب النفسي

توصيف مقرر علمي في الطب النفسي فيما يخص الطب الرياضي  
لماجستير الطب الرياضي

1- بيانات المقرر		
المستوى ماجستير جزء ثاني	اسم المقرر : مقرر علمي في الطب النفسي فيما يخص الطب الرياضي	الرمز الكودي : SM 616
<input type="checkbox"/>	عدد الوحدات الدراسية 2 ساعة معتمدة	التخصص : الطب الرياضي



- 1.1- use understanding the pathophysiology of different psychiatric disorders and the associated neuroscience background.
- 1.2. **discuss** understanding the appropriate use and interpretation of common diagnostic studies.
- 1.3. **use** development of the necessary knowledge and skills to approach and manage the wide array of psychiatric disorders.
- 1.4. **manage** acquiring the skills for competently performing the basic psychiatric procedures.
- 1.5. **illustrate** effectively perform a detailed and an efficient psychiatric history taking and examination.
- 1.6. **discuss applying** to carry out the diagnosis and plan the treatment of the commonly encountered psychiatric disorders and emergencies in a compassionate, appropriate and effective manner.
- 1.7. **use** effectively work within a team and implement liaison with members of the other medical specialties.
- 1.8. **discuss** capacity to learn independently and to use the medical literature to improve the clinical practice.
- 1.9. **discuss** development of the necessary skills for finding scientific information, critical appraisal of medical literature and scientific

2- هدف  
المقرر :

3- المستهدف من تدريس المقرر :



- 2a1. discuss the etiology of schizophrenia, causes, clinical picture, with special emphasis on medical, psychosocial and environmental causes, how to diagnose, and demonstrate management.
- 2a2. explain the principles of genetics and the role in bipolar disorder, schizophrenia ocd, anxiety, delirium, dementia describe causes managing classifying, explain of genetics with different psychiatric and neurological diseases.
- 2a3. identify the basics of neurodevelopmental disorders in children, supported by early clinical contact and demonstration.
- 2a4. Discuss how common is somatization disorder and hypochondria disease's clinical manifestations and differential diagnosis with medical diseases and liaison psychiatry.
- 2a5. explain somatoform disorder, anxiety disorders diagnostic studies with emphasis on their prioritization in management plans.
- 2a6. Define pharmacological principles of treatment including: drug effects/pharmacokinetics, dosage, drug-drug interactions and adverse reactions.
- 2a7. Describe the principles of non-pharmacological therapies, and their role in disease management (psychotherapy, electroconvulsive therapy, transcranial magnetic stimulation)
- 2a8. discuss the nature of childhood disability, as autism, ADHD, and mental disability its impact on the community and the principles of management including: rehabilitation, institutional and community care.
- 2a9. Identify the principles governing ethical decision making in clinical practice and the major ethical dilemmas in medicine and recognize the patient-doctor rights as a part of human rights in addiction and inpatients.
- 2a10. Describe how to apply his/her medical knowledge in the service of law with emphasis on medico-legal aspects of medical practice as in forensic psychiatry.
- 2a11. Specify the basics of normal and abnormal human behaviors in personality disorders.

أ-  
المعلومات  
والمفاهيم  
:



- 2.b.1. describe insight for continued self assessment of their current medical practice aiming to update and improve it.
- 2.b.2. Interpret clinical problems as how to differentiate between psychotic and neurotic disorders.
- 2.b.4. Analyze medical problems to reach appropriate diagnosis and assess comorbid psychiatric disorders.
- 2.b.5. Evaluate information objectively, recognizing its limitations.
- 2.b.6. Integrate the results of history, physical and mental examination with neuropsychiatric investigation findings into a meaningful diagnostic formulation.
- 2.b.7. choose the most relevant diagnostic tools as different psychometries for different suspected disorders.
- 2.b.8. Retrieve and analyzes relevant and current data from literature, using information technologies and library resources, in order to help solve a clinical problem based on evidence (EBM).
- 2.b.9. cope with uncertainty by proper counseling, consultation and referral.
- 2.b.10. Evaluate emergency cases in psychiatry and manage them properly.
- 2.b.11. Integrate the psychiatric and somatic manifestations to accurately evaluate the patient.
- 2.b.12. discuss building therapeutic alliance with the patient based on professionalism and ethics.

ب-  
المهارات  
الذهنية:



2c1- Apply and document a complete or focused medical history in the outpatient, inpatient or emergency settings.

2c2- Perform and document a complete or focused physical and mental examination.

2c3- Construct patient's symptoms and physical signs in terms of anatomic, pathologic and functional diagnostic significances.

2c4- Judge problems and select the most appropriate and cost effective diagnostic procedures for each problem.

2c5- Record clear and concise medical records including: admission sheets, progress notes, and physician' orders, referrals for consultation, discharge sum-maries and follow up notes.

2.c.6. Adopt basic and new skills in Psychology field.

2.c.7. Use technological methods in professional practice.

2.c.8. Write and evaluate professional reports about Psychological topics.

2.c.9. Evaluate and develop the used methods in the field of Psychology.

2.c.11. Plan to improve professional performance and develop others' performance.

→  
المهارات  
المهنية  
الخاصة  
بالمقرر :



- 2.d.1. Estimate and understand the differences in beliefs and backgrounds among patients.
- 2.d.2. Explain to patients and their families the clinical investigation's findings in relation to possible courses of therapy including indications, risks, benefits and alternatives as well as plans for follow up.
- 2.d.3. discuss Knowing when and how to ask for senior consultation.
- 2.d.4. discuss Giving accurate and clear oral summaries of the patient's illness.
- 2.d.5. illustrate work collaboratively with other health professionals in other disciplines to maximize patient benefits and minimize the risk of errors.
- 2.d.6. manage Adoption ethical behavior expected for doctors towards patients with recognition of patients' rights, particularly with regard to confidentiality and informed consent.

د -  
المهارات  
العامة :



ILOs	% of Total	Total (hrs)	Relative value	Practical (hrs)	Relative value	Lectures (hrs)	Topic		
2.a.1,2.a.2,2.a.3, 2.a.7,2.a.8,2.a.9,2.a.10,2.a.11&2.b.1 2.b.2,2.b.3,2.b.4,2.b.5&2.c.2,2.c.4,2.c.4 2.c.5,2.c.6,2.c.9,&2.d.1,2.d.3,2.d.4,2.d.8			5.1	30	5.5	15	4.7	15	1- <b>Psychiatry history and mental status</b>
2.a.6,2.a.7,2.a.8,2.a.9,2.a.11& 2.b.2,2.b.3,2.b.6,2.b.7&2.c.1,2.c.3,2.c.5,2.c.8& 2.d.1,2.d.3,2.d.4,2.d.5,2.d.6			5.1	30	5.5	15	4.7	15	2- Classification in psychiatry
2.a.2,2.a.6,2.a.7,2.a.7,2.a.9,&2.b.1 ,2.b.3,2.b.4,2.b.5&2.c.3,2.c.4,2.c.5,2.c.6&2.d.1 2.d.2,2.d.3,2.d.5			5.9	35	5.5	15	6.3	20	3- <b>Mood Disorders</b>
2.a.3,2.a.4,2.a.5,2.a.6,2.a.7,2.a.8,2.a.9 2.b.1,2.b.2,2.b.4,2.b.5&2.c.5,2.c.6,2.c.7,2.c.8,2.c.9 &2.d.1,2.d.2,2.d.3,2.d.4,2.d.5,2.d.7			5.9	35	5.5	15	6.3	20	3- <b>Anxiety Disorders</b>
2.a.1,2.a.6,2.a.7,2.a.8,2.a.9&2.b.2,2.b.4 2.b.5,2.b.6,2.b.6&2.c.3,2.c.4,2.c.6&2.d.3,2.d.4,2.d.5 2.d.6			5.9	35	5.5	15	6.3	20	4- <b>Schizophrenia and other psychotic Disorders</b>
2.a.4,2.a.5,2.a.5,2.a.6,2.a.7,2.a.8,2.a.9& 2.b.5,2.b.6,2.b.7&2.c.6,2.c.6,2.c.9&2.d.1,2.d.8,2.d.9			3.4	20	3.7	10	3.2	10	5-Dissociative Disorders
2.a.6,2.a.7,2.a.8,2.a.9,2.a.11&2.b.3, 2.b.4,2.b.5,2.b.6&2.c.3,2.c.4,2.c.5,2.c.6&2.d.2,2.d.3 2.d.4,2.d.5,2.d.6			8.5	50	7.4	20	9.5	30	6- <b>Alcohol, opioids and other substance related</b>

-4  
محتوى  
المقرر:



<p>5.1. Modified lectures 5.2. Clinical lessons 5.3. Assignment 5.4. Attending the department scientific conference, workshops and thesis discussion 5.5. Group discussion 5.6. Problem solving 5.7. Brain storming 5.8. Scientific Symposium 5.9. E lectures • Final exam at May or November</p>	<p>5- أساليب التعليم والتعلم</p>
<p>لا ينطبق</p>	<p>6- أساليب التعليم والتعلم للطلاب ذوى القدرات المحدودة</p>
<p>7- تقويم الطلاب :</p>	
<p>7.a.1. <b>Written exams:</b> to assess knowledge, understanding and intellectual skills. 7.a.2. <b>Clinical exams(OSCE):</b> to assess knowledge and understanding, intellectual, practical and professional and General and transferable skills. 7.a.3. <b>Structured oral exams(Viva cards):</b> to assess knowledge and understanding, intellectual and General and transferable skills. <b>Formative only assessment:</b> simple research assignment, Log book, attendance and absenteeism, case study presentation and group project</p>	<p>أ- الأساليب المستخدمة</p>



<ul style="list-style-type: none"><li>Final exam at May or November</li></ul>	ب- التوقيت
7.c. Final-term written examination 50 Oral examination 25 Clinical examination 25	ج- توزيع الدرجات
8- قائمة الكتب الدراسية والمراجع :	
<b>8.a Course Notes:</b> <ul style="list-style-type: none"><li>Lectures notes prepared by staff members in the department</li></ul>	أ- مذكرات
<b>8.b Essential Books (Text Books):</b> <ul style="list-style-type: none"><li>Synopsis of psychiatry (three volumes) Benjamin James Sadock, Virginia Alcott Sadock 2018</li><li>Comprehensive Textbook of psychiatry Benjamin J Sadock; VirginiaA Sadock 2018.</li><li>Case files psychiatry Toy Klamen 2004</li></ul>	ب- كتب ملزمة
<b>8.c Recommended Books:</b> 1- Neurobiology of mental illness: second edition Dennis Charney, Eric Niestter 2005 2- Handbook of psychiatric drugs Lawrence J., Rhoda K., Christopher 2005	ج- كتب مقترحة



**8.d. Periodicals and Web Sites:**

د -  
دوريات  
علمية أو  
نشرات

مصفوفة طرق التدريس مع نواتج التعلم لمقرر

طرق التدريس			نواتج التعلم للمقرر	
Clinical Lessons	Other Methods	Modified Lectures		
*	*	*	2.a.1	المعرفة والفهم
*	*	*	2.a.2	
*	*	*	2.a.3	
*	*	*	2.a.4	
*	*	*	2.a.5	
*	*	*	2.a.6	
*	*	*	2.a.7	
*	*	*	2.a.8	
*	*	*	2.a.9	
*	*	*	2.a.10	
*	*	*	2.a.11	
	*	*	2.b.1	المهارات الذهنية
	*	*	2.b.2	
*	*	*	2.b.3	
	*	*	2.b.4	



.	*	*	2.b.5		
*	*	*	2.b.6		
	*	*	2.b.7		
	*	*	2.b.8		
*	*	*	2.b.9		
	*	*	2.b.10		
*	*	*	2.b.11		
	*	*	2.b.12		
*			2.c.1		المهارات المهنية والعملية
*			2.c.2		
*			2.c.3		
*			2.c.4		
*			2.c.5		
*			2.c.6		
*			2.c.7		
*			2.c.8		
*			2.c.9		
*			2.c.10		
*			2.c.11		
*	*		2.d.1	المهارات العامة	
*	*		2.d.2		
*	*		2.d.3		
*	*		2.d.4		
*	*		2.d.5		
*	*		2.d.6		



مصفوفة طرق التقويم مع نواتج التعلم لمقرر

Clinical Exam	طرق التقويم		نواتج التعلم للمقرر
	Structured Oral Exam	Written exam	
*	*	*	2.a.1
*	*	*	2.a.2
*	*	*	2.a.3
*	*	*	2.a.4
*	*	*	2.a.5
*	*	*	2.a.6
*	*	*	2.a.7
*	*	*	2.a.8
*	*	*	2.a.9
*	*	*	2.a.10
*	*	*	2.a.11
*	*	*	2.b.1
*	*	*	2.b.2
*	*	*	2.b.3
*	*	*	2.b.4
*	*	*	2.b.5

المعرفة  
والفهم

المهارات  
الذهنية



*	*	*	2.b.6	
*	*	*	2.b.7	
*	*	*	2.b.8	
*	*	*	2.b.9	
*	*	*	2.b.10	
*	*	*	2.b.11	
*	*	*	2.b.12	
*			2.c.1	المهارات المهنية والعملية
*			2.c.2	
*			2.c.3	
*			2.c.4	
*			2.c.5	
*			2.c.6	
*			2.c.7	
*			2.c.8	
*			2.c.9	
*			2.c.10	
*			2.c.11	
*	*		2.d.1	المهارات العامة
*	*		2.d.2	
*	*		2.d.3	
*	*		2.d.4	
*	*		2.d.5	

**Course Contents/ILOs Matrix**



ILOs	2.a. Knowledge and understanding										2.c.3. Professional And Behavioral										General skills										
	2.a.1	2.a.2	2.a.3	2.a.4	2.a.5	2.a.6	2.a.7	2.a.8	2.a.9	2.a.10	2.c.1	2.c.2	2.c.3	2.c.4	2.c.5	2.c.6	2.c.7	2.c.8	2.c.9	2.c.10	2.d.1	2.d.2	2.d.3	2.d.4	2.d.5	2.d.6	2.d.7	2.d.8	2.d.9	2.d.10	
1- P s		*					*																								
2- Classifi cation in		*		*		*			*			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3- Moo d Diso rder s		*		*	*	*	*	*	*	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4- Anxi ety					*							*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*





