



توصيف برنامج الدبلوم في الطب الرياضي





توصيف برنامج الدبلوم في الطب الرياضى
(عام دراسى 2020-2021)

Basic

أ. معلومات أساسية :
information

- 1- **Name of the program:** Diploma of Sports Medicine
- 2- **Nature of the program:** single
- 3- **Departments:**
 - **Responsible Department:** Sports Medicine.
 - **Participating Departments:** Anatomy-Physiology-Pharmacology, Forensic medicine and clinical toxicology-Community, environmental and occupational medicine- Biochemistry- Internal medicine- Emergency medicine- Dermatology, Andrology and STDs- Orthopedic surgery- Neuropsychiatry Departments.
- 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.

ب. معلومات متخصصة:

Professional information

1 - الأهداف العامة للبرنامج:

1- Overall Aims of the Program:

The overall aims of the program are to:

- 1.1. **Provide** students with basic knowledge of normal and abnormal biomechanics in the field of Sports Medicine.
- 1.2. **Give** students background covering Sports related problems as regard causes, clinical presentation, diagnosis and management.
- 1.3. **Acquire** knowledge and understanding of issues covering the common and important areas in the field of Sports Medicine.
- 1.4. **Support** analysis of professional problems and planning for their management in the area of Sports medicine.
- 1.5. **Use** of modern resources for organization of specialized professional skills in problem solving and decision-making.
- 1.6. **Provide** appropriate ethical education necessary for establishment of excellent communication with patients and colleague.
- 1.7. **Build-up** lifelong learning competencies necessary for continuous professional development.
- 1.8. **Allow** role for practice and application of students' profession in community development.

2 - المخرجات التعليمية المستهدفة من البرنامج :

2-Intended Learning Outcomes (ILOS):



2.a. Knowledge and

أ.2 - المعرفة والفهم :

Understanding

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

2.a.1. Understand the normal structure, function and biomechanics of the body's musculoskeletal and neurological systems.

2.a.2. Know common causes and complications of sports related problems.

2.a.3. Mention sports related physical disability, its burden on the community and its management (physical therapy and rehabilitation measures).

2.a.4. Recognize the common causes of chronic pain, the complication of inactivity and common emergencies occurring at the rehabilitation unit.

2.a.5. Recognize physical and medical methods for pain relief in different sports related problems and emergencies.

2.a.6. Mention the principles of diagnostic procedures in clinical practice and the basics of statistics.

2.a.7. Recognize the basic principles of the specific investigational plans for the diagnosis of different sports related problems and emergencies.

2.a.8. Mention the basic issues of patients' health and safety while providing drugs, physical therapy, rehabilitation programs or management of sports related problems and emergencies.

2.a.9. Highlight the importance of appropriate nutrition, physical therapy and rehabilitation including complementary and alternative approaches in health care services to improve medical practice within the community.

2.a.10. Highlight the patients' emotional concern and outline relevant ethical and legal requirements in the management of patients.



2. ب - القدرات الذهنية :

2.b. Intellectual Skills:-

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

2.b.1. Develop the basic principles of formulating specific clinical sheets and the art of utilizing sources of information for the diagnosis, differential diagnosis, and problem solving in Sports medicine field.

2.b.2. Analyze the clinical and investigational database to problem solving of atypical clinical presentations.

2.b.3. Interpret patient symptoms and physical findings in terms of their anatomic, physiologic, pathologic, and functional diagnostic importance.

2.b.4. Create a list of initial diagnostic hypotheses (differential diagnosis) for each problem.

2.b.5. Analyze and present research ideas as well as recent subjects related to the field.

2.b.6. Interpret risk factors for disease or injury, as well as rules controlling sports related injuries and determine its psychological and behavioral impact and suitable strategies for appropriate management.

2.b.7. Formulate appropriate management plans for patients with different sports related problems or injuries, including medical, physical, and surgical approaches.

2.b.8. Analyze basic nutritional, medical, physical approaches to avoid and manage physical disability within the community.

2.b.9. Evaluate indications and prescription of orthoses and prostheses of different parts of body.

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. Take a complete and focused medical history and formulate specific clinical database to record common medical problems.

2.c.2. Identify tests of evaluation of motor function and musculoskeletal disorders.

2.c.3. Perform technical procedures, diagnostic and therapeutic in the field of sports medicine.

2.c.4. Apply physical assessment and evaluation for patients with anatomical deformities and different disabilities.

2.c.5. Perform routine therapeutic procedures such as local injections, joint aspiration, tractions, and manipulation.

2.c.6. Write comments on a case of sports related problems.

2.c.7. Write complete prescriptions of different types of orthoses and prostheses suitable for any age group.

2.2 . 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 effective interpersonal relationship to communicate ideas and arguments with other health care professionals,

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

2.d.3. Determine personal learning needs necessary for continuous learning,

2.d.4. Use all sources of biomedical information and communication technology to remain up- to-date with advances in knowledge and practice,



2.d.5. Work effectively with an interdisciplinary team within time-planned programs,

2.d.6. Establish life-long self-learning required for continuous professional development.

3- المعايير الأكاديمية للبرنامج:

3- Academic Standards

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

4- العلامات المرجعية:

4- Reference standards:

- المعايير الأكاديمية المرجعية (ARS) لبرنامج الدبلوم في الطب الرياضي.
- المعايير القياسية لبرامج الدراسات العليا (درجة الدبلوم) الصادرة عن الهيئة القومية لجودة التعليم والاعتماد (مارس 2009) (ملحق 2).
- مصفوفة مقارنة المعايير القياسية لبرامج الدراسات العليا (درجة الدبلوم) الصادرة عن الهيئة القومية لجودة التعليم والاعتماد مع ال ARS. (ملحق 3)
- مصفوفة المضاهاة بين المعايير المتبناة لبرنامج دبلوم الروماتيزم والتأهيل والطب الطبيعي مع أهداف ونواتج تعلم البرنامج. (ملحق 4)

(5) Curriculum structure and

5 - هيكل ومكونات البرنامج contents:

Program structure and contents

أ - مدة البرنامج

a) Program duration: 4 semesters (2 years)

1st part: - One Semester (6 months).

2nd part: - 3 Semester (1.5 year).



b) Program structure

ب - هيكل البرنامج

- :
- **Total hours of program:** 40 credit hours
 - **Theoretical:** 34 credit hours
 - **Practical :** 6 credit hour

| المقررات الدراسية | | |
|--|--|--------------|
| المنهج | | |
| مقرر علمى فى التشريح التطبيقى | مقررات طبية اساسية ٩ ساعة معتمدة | الجزء الاول |
| مقرر فى علم الفسيولوجيا التطبيقية | | |
| مقرر فى علم الفارماكولوجيا | | |
| مقرر فى المنشطات و القوانين لمنظمة ما | | |
| مقرر علمى فى الكيمياء الحيوية فيما يخص الطب الرياضى | | |
| مقرر علمى فى طرق البحث و الاحصاء | | |
| التغذية فيما يخص الطب الرياضى | | |
| مقرر علمى فى العلوم السلوكية و علاقتها بالطب الرياضى | | |
| الرياضى المتحد الاولمبى | | |
| القوانين الدولية المنظمة للرياضة | | |
| مقدمة فى علم ميكانيكا الحركة | | |
| مقرر فى امراض الباطنة فيما يخص الطب الرياضى و يشمل القلب الرياضى - الجهاز الهضمى - غدد صماء - سكر - الاعصاب | المجموع | الجزء الثانى |
| مقرر علمى فى اصابات الملاعب | | |
| مقرر علمى فى طب الطوارئ | | |
| مقرر علمى فى الجلدية فيما يخص الطب الرياضى | | |
| مقرر علمى فى الطب النفسى فيما يخص الطب الرياضى | | |



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 501 | 2 | 2 | 30 |
| الفسولوجيا التطبيقية | SM 502 | 2 | 2 | 30 |
| الفارماكولوجيا | SM 503 | 1 | 1 | 15 |
| المنشطات والقوانين المنظمة لها | SM 504 | 1 | 1 | 15 |
| الكيمياء الحيوية فيما يخص الطب الرياضي | SM 505 | 1 | 1 | 15 |
| طرق البحث والإحصاء | SM 506 | 1 | 1 | 15 |
| التغذية فيما يخص الطب الرياضي | SM 507 | 1 | 1 | 15 |
| Total | | 9 | 9 | 210 |



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 508 | 1 | 1 | 15 |
| الرياضي المتحد الأولمبي | SM 509 | 1 | 1 | 15 |
| القوانين الدولية المنظمة للرياضة | SM 510 | 1 | 1 | 15 |
| مقدمة في علم ميكانيكا الحركة | SM 511 | 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/ Practica l | Tota l | |
| أمراض الباطنة فيما يخص الطب الرياضي | SM 512 | 8.5 | 3 | 11.5 | 517.5 |
| إصابات الملاعب | SM 513 | 8.5 | 3 | 11.5 | 517.5 |
| مقرر في طب الطوارئ | SM 514 | 5 | 2 | 7 | 315 |
| مقرر الجلدية فيما يخص الطب الرياضي | SM 515 | 1.5 | 1 | 2.5 | 112.5 |
| مقرر الطب النفسي فيما يخص الطب الرياضي | SM 516 | 1.5 | 1 | 2.5 | 112.5 |
| Total | - | 25 | 10 | 35 | 1575 |

b- Elective courses: none.

b- Selective courses: none.



C-

6-محتويات المقررات (راجع توصيف المقررات) ملحق 6

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

7 - متطلبات الإلتحاق بالبرنامج

• مادة (17) : يشترط في قيد الطالب لدرجة / الدبلوم العالي

- 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، بعد أدنى تقدير مقبول للتسجيل لدرجة للدبلوم.
- 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 درجه 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 في الجزء الثاني (فصلين دراسيين).
- هـ - تسديد الرسوم ومصاريف التدريب واستهلاك الأجهزة

• مادة (19) : مواعيد القيد وبدأ الدراسة :

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



8 - القواعد المنظمة لإستكمال البرنامج :

مادة (29) : يشترط في الطالب لنيل درجة الدبلوم في 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) في التخصص بالنسبة للعلوم الإكلينيكية.

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

د- النجاح في امتحان الجزئين الأول والثانى من الدرجة.

هـ- اجتياز الطالب الدورات الآتية :

- ◆ الحاسب الآلي (دورة فى مقدمة الحاسب - دورة فى تطبيقات الحاسب الآلي) .
- ◆ (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.



9- طرق وقواعد تقييم الملتحقين بالبرنامج

9 - Students Assessment Methods

Final exam:

| مخرجات التعلم المستهدفة | الوسيلة | م |
|--|------------------------------|---|
| To assess knowledge & understanding and intellectual skills. 2.a.1. → 2.a.10, 2.b.1. → 2.b.9. | Written examination | 1 |
| To assess knowledge & understanding , intellectual skills and general & transferable skills. 2.a.1. → 2.a.10, 2.b.1. → 2.b.9, 2.d.1. → 2.d.6. | Oral examination | 2 |
| To assess knowledge & understanding, intellectual skills, practical & clinical skills and general & transferable skills. 2.a.1. → 2.a.10, 2.b.1. → 2.b.9, 2.c.1. → 2.c.7, 2.d.1. → 2.d.6. | Practical examination | 3 |



| الإختصاصات | | | | | | | المدافع | | | | |
|---------------|---------|------------|-------------|--------|-------|----------|------------------|--------|---|---------|--|
| مجموع الدرجات | الكليني | علم الدرجة | شؤون الدرجة | التقني | | | الساعات المعتمدة | الكود | المقررات الدراسية | | |
| | | | | الدرجة | المسح | م. الأثر | | | الاسم | الساعات | |
| ١٠٠ | | ٢٥ | ١٥ | ٦٥ | ٣ | ١ | ٢ | SM 501 | مقرر علمي في التشريح التطبيقي | ٢ | مقررات طبية أساسية ٩ ساعات معتمدة |
| ١٠٠ | | ٢٥ | ١٥ | ٦٠ | ٣ | ١ | ٢ | SM 502 | مقرر في علم الفسيولوجيا التطبيقية | ٢ | |
| ٥٠ | | ٢٠ | ٣٠ | ٣ | ٣ | ١ | ٤ | SM 503 | مقرر في علم القارماتولوجيا | ٤ | |
| ٥٠ | | ٢٠ | ٣٠ | ٣ | ٣ | ١ | ٤ | SM 504 | مقرر في المنشطات و الفواتين لمنظمة ما | ٤ | |
| ٥٠ | | ٢٠ | ٣٠ | ٣ | ٣ | ١ | ٤ | SM 505 | مقرر علمي في التنبؤ الحيوية فيما يخص الطب الرياضي | ٤ | |
| ٥٠ | | ٢٠ | ٣٠ | ٣ | ٣ | ١ | ٤ | SM 506 | مقرر علمي في طرق البحث و الإحصاء | ٤ | |
| ٥٠ | | ٢٠ | ٣٠ | ٣ | ٣ | ١ | ٤ | SM 507 | التغذية فيما يخص الطب الرياضي | ٤ | |
| ٥٠ | | ٢٠ | ٣٠ | ٣ | ٣ | ١ | ٤ | SM 508 | مقرر علمي في العلوم السلوكية و علاقتها بالطب الرياضي | ٤ | |
| ٥٠ | | ٢٠ | ٣٠ | ٣ | ٣ | ١ | ٤ | SM 509 | الرياضي المتمد الأولمبي | ٤ | |
| ٥٠ | | ٢٠ | ٣٠ | ٣ | ٣ | ١ | ٤ | SM 510 | القوانين الدولية المنظمة للرياضة | ٤ | |
| ٥٠ | | ٢٠ | ٣٠ | ٣ | ٣ | ١ | ٤ | SM 511 | مقدمة في علم ميكانكا الحركة | ٤ | مقررات اختيارية أساسية اختيارية يختار منها علم واحد لمادة واحدة معتمدة |
| ٥٠٠ | ٧٥ | ٧٥ | ٣٥٠ | ٣ | ٣ | ١ | ١٠ | SM 512 | مقرر في امراض الباطنة فيما يخص الطب الرياضي و يشمل القلب الرياضي - الجهاز الهضمي - غدد صماء - سكر - الاغصاب | ١٠ | |
| ٥٠٠ | ٧٥ | ٧٥ | ٣٥٠ | ٣ | ٣ | ١ | ١٠ | SM 513 | مقرر علمي في امراض المصاحب | ١٠ | |
| ٣٠٠ | ٥٠ | ٥٠ | ٢٠٠ | ٣ | ٣ | ١ | ٦ | SM 514 | مقرر علمي في طب الطوارئ | ٦ | |
| ١٠٠ | ٢٥ | ٢٥ | ٥٠ | ٣ | ٣ | ١ | ٢ | SM 515 | مقرر علمي في الجندية فيما يخص الطب الرياضي | ٢ | |
| ١٠٠ | ٢٥ | ٢٥ | ٥٠ | ٣ | ٣ | ١ | ٢ | SM 516 | مقرر علمي في الطب النفسي فيما يخص الطب الرياضي | ٢ | |
| ٢٠٠٠ | ٢٥٠ | ٥٠ | ١٢٠٠ | | | | 400 | | | | المجموع |

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. التعلم باستخدام تكنولوجيا المعلومات E-learning

المسئول عن البرنامج : أ د حسني عبد الرحمن
التاريخ :

Program Coordinator:

Name: Prof. Hosny Abd El-Rahman

Signature:

Date:

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الملحقات

- ملحق (1) :
Academic Reference Standards (ARS) of diplom Program of Sports Medicine (ملحق 1)
- ملحق (2): المعايير القياسية لبرامج الدراسات العليا (درجة الدبلوم) الصادرة عن الهيئة القومية لجودة التعليم والاعتماد (مارس 2009) (ملحق 2).
- ملحق (3): مصفوفة مقارنة المعايير القياسية لبرامج الدراسات العليا (درجة الدبلوم) 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 ونواتج تعلم البرنامج.
- ملحق (6): توصيف المقررات.
(Program courses and ILOs matrix)



ملحق (1)

Academic Reference Standards (ARS) of Diploma of Science in Sports Medicine

Graduate Attributes:

1-1 Application of specialized knowledge gained in the professional practice .

2-1 Identifying professional problems and propose solutions for their management in the area of Sports medicine.

3-1 Mastery of professional skills and the use of appropriate technological means in professional practice in Sports medicine.

4-1 Communication and leading teams through systemic employment and build up lifelong learning competencies necessary for continuous professional development in the field of Sports medicine.

5-1 Decision in the light of the available information and allow issues covering the common and important areas in the field of Sports Medicine.

6-1 Employ available resources efficiently for management of different problems in the field of Sports Medicine.

7-1 To be aware of his role in community development .

8-1 Disposition reflecting integrity and credibility of the profession and the rules and accept accountability.

9-1 Recognize the need for life-long learning for continuous professional development in Sports medicine.

Academic Standards:

Knowledge and understanding:



By the end of Diploma 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 the related specialities .

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

2.1.3 Principles and the basics of quality in professional practice in the area of Sports Medicine.

2.1.4 The impact of professional practice of Sports medicine on the environment and work to preserve the environment through outline the basic issues of patients' health and safety while providing any professional support or intervention.

Intellectual skills:

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

2.2.1 Identify and analyze problems in the field of Sports Medicine, arranged according to their own priorities , formulating specific clinical sheets and utilizing sources of information for the diagnosis, differential diagnosis, and problem solving in musculoskeletal diseases or sports induced injuries or disorders.

2.2.2 Solve specialized problems in the field in the field of Sports Medicine and make an investigational immunologic database to solve problems of atypical clinical presentations.

2.2.3 Analytical reading and research topics related to Sports Medicine and interpret patient symptoms and physical findings in terms of their anatomic, physiologic, pathologic and functional diagnostic importance.



2.2.4 Risk assessment for disease or injury and determine strategies for appropriate management.

2.2.5 Professional decision-making in the light of the available information.

Practical/Professional skills

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

2.3.1 Application of professional skills in the field of Sports Medicine‘

2.3.2 Writing professional reports through physical assessment and evaluation for patients with anatomical deformities, evaluation of motor function and different disabilities.

Communication and transferable skills:

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

1-4-2 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 Lead a team in professional familiar contexts .

2.4.6 Work in a team and time management.

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



ملحق (2)

المعايير القياسية العامة و مواصفات الخريج

برامج الدبلوم

1- مواصفات الخريج

خريج برامج دبلومه الدراسات العليا فى أى تخصص يجب أن يكون قادرا على :

- 1-1 تطبيق المعارف المتخصصة التى اكتسبها فى ممارسته المهنية .
- 2-1 تحديد المشكلات المهنية واقتراح حلولها.
- 3-1 إتقان المهارات المهنية واستخدام الوسائل التكنولوجية المناسبة فى ممارسته المهنية .
- 4-1 التواصل وقيادة فرق العمل من خلال العمل المهنى المنظومى
- 5-1 اتخاذ القرار فى ضوء المعلومات المتاحة
- 6-1 توظيف الموارد المتاحة بكفاءة
- 7-1 الوعى بدوره فى تنمية المجتمع والحفاظ على البيئة
- 8-1 التصرف بما يعكس الالتزام بالنزاهة والمصداقية وقواعد المهنة وتقبل المسائلة والمحاسبة
- 9-1 إدراك ضرورة تنمية ذاته والانخراط فى التعليم المستمر

2-2- المعايير القياسية العامة:

1-2 المعرفة والفهم:

بانتهاى دراسة برامج دبلومه الدراسات العليا يجب أن يكون الخريج قادرا على فهم واستيعاب كل من :

1-1-2 النظريات والاساسيات والمعارف المتخصصة فى مجال التعلم وكذا العلوم ذات العلاقة بممارسته المهنية

2-1-2 المبادئ الأخلاقية والقانونية للممارسة المهنية فى مجال التخصص

3-1-2 مبادئ وأساسيات الجودة فى الممارسة المهنية فى مجال التخصص

4-1-2 تأثير الممارسة المهنية على البيئة والعمل على الحفاظ على البيئة وصيانتها



2-2 المهارات الذهنية :

بانتهاج دراسة برنامج دبلومه الدراسات العليا يجب أن يكون الخريج قادرا على :

1-2-2 تحديد وتحليل المشاكل في مجال التخصص وترتيبها وفقا لأولوياتها

2-2-2 حل المشاكل المتخصصة في مجال مهنته

3-2-2 القراءة التحليلية للأبحاث والمواضيع ذات العلاقة بالتخصص

4-2-2 تقييم المخاطر في الممارسات المهنية

5-2-2 اتخاذ القرارات المهنية في ضوء المعلومات المتاحة

3-3 المهارات المهنية :

بانتهاج دراسة برنامج دبلومه الدراسات العليا يجب أن يكون الخريج قادرا على :

1-3-2 تطبيق المهارات المهنية في مجال التخصص

2-3-2 كتابة التقارير المهنية

4-4 المهارات العامة والمنتقلة:

بانتهاج دراسة برنامج دبلومه الدراسات العليا يجب أن يكون الخريج قادرا على :

1-4-2 التواصل الفعال بأنواعه المختلفة

2-4-2 استخدام تكنولوجيا المعلومات بما يخدم تطوير الممارسة المهنية

3-4-2 التقييم الذاتي وتحديد احتياجاته التعليمية الشخصية

4-4-2 استخدام المصادر المختلفة للحصول على المعلومات والمعارف

5-4-2 العمل في فريق وإدارة الوقت

6-4-2 قيادة فريق في سياقات مهنية مألوفة

7-4-2 التعلم الذاتي والمستمر.



ملحق (3)

مصفوفة المعايير الأكاديمية للبرنامج مع المعايير القياسية للدراسات العليا الصادرة عن الهيئة

مواصفات الخريج:

| مواصفات الخريج بالمعايير الأكاديمية للبرنامج | مواصفات الخريج بالمعايير القياسية للدراسات العليا (درجة الدبلوم) |
|--|---|
| 1-1 | خريج برامج دبلومه الدراسات العليا في أي تخصص يجب أن يكون قادرا على : 1-1 تطبيق المعارف المتخصصة التي اكتسبها في ممارسته المهنية. |
| 1-2 | 2-1 تحديد المشكلات المهنية واقتراح حلول لها. |
| 1-3 | 3-1 إتقان المهارات المهنية واستخدام الوسائل التكنولوجية المناسبة في ممارسته المهنية . |
| 1-4 | 4-1 التواصل وقيادة فرق العمل من خلال العمل المهني المنظومي . |
| 5-1 | 5-1 اتخاذ القرار في ضوء المعلومات المتاحة . |
| 6-1 | 6-1 توظيف الموارد المتاحة بكفاءة. |
| 7-1 | 7-1 الوعي بدوره في تنمية المجتمع والحفاظ على البيئة. |
| 8-1 | 8-1 التصرف بما يعكس الالتزام بالنزاهة والمصداقية وقواعد المهنة وتقبل المسائلة والمحاسبة . |



| | |
|-----|--|
| 1-9 | 9-1 إدراك ضرورة تنمية ذاته والانخراط في التعليم المستمر. |
|-----|--|

أ - المعرفة والفهم:

A- Knowledge and Understanding:

| المعايير الأكاديمية للبرنامج | المعايير القياسية العامة (Generic) لبرامج الدراسات العليا (درجة الدبلوم) |
|------------------------------|---|
| 2.2.1 | 1-1-2 النظريات والاساسيات والمعارف المتخصصة في مجال التعلم وكذا العلوم ذات العلاقة بممارسته المهنية |
| 2.1.2 | 2-1-2 المبادئ الأخلاقية والقانونية للممارسة المهنية في مجال التخصص. |
| 2.1.3 | 3-1-2 مبادئ وأساسيات الجودة في 2 الممارسة المهنية في مجال التخصص. |
| 2.1.4 | 4-1-2 تأثير الممارسة المهنية على البيئة والعمل على الحفاظ على البيئة وصيانتها. |



ب - القدرات الذهنية :

B- Intellectual Skills:

| المعايير الأكاديمية للبرنامج | المعايير القياسية العامة (Generic) لبرامج الدراسات العليا (درجة الدبلوم) |
|------------------------------|--|
| 2.2.1 | بانتهاج دراسة برنامج الدبلوم يجب ان يكون الخريج قادرا على : 1-2-2 تحديد وتحليل المشاكل في مجال التخصص وترتيبها وفقا لأولوياتها. |
| 2.2.2 | 2-2-2 حل المشاكل المتخصصة في مجال مهنته. |
| 2.2.3 | 3-2-2 القراءة التحليلية للأبحاث والمواضيع ذات العلاقة بالتخصص. |
| 2.2.4 | 4-2-2 تقييم المخاطر في الممارسات المهنية. |
| 2.2.5 | 5-2-2 اتخاذ القرارات المهنية في ضوء المعلومات المتاحة. |

ج- مهارات مهنية وعملية

C- Practical and professional Skills:

| المعايير الأكاديمية للبرنامج | المعايير القياسية العامة (Generic) لبرامج الدراسات العليا (درجة الدبلوم) |
|------------------------------|--|
| 2.3.1, | بانتهاج دراسة برنامج الدبلوم يجب ان يكون الخريج قادرا على: 1-3-2 تطبيق المهارات المهنية في مجال التخصص. |
| 2.3.2 | 2-3-2 كتابة التقارير المهنية. |

د . مهارات عامة :



D- General and Transferable Skills:

| المعايير الأكاديمية للبرنامج | المعايير القياسية العامة (Generic) لبرامج الدراسات العليا (درجة الماجستير) |
|------------------------------|---|
| 2-4-1 | بإنهاء 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 العمل في فريق سياقات مهنية مختلفة. |
| 2.4.6 | 6-4-2 ادارة الوقت بكفاءة. |
| 2.4.7 | 7-4-2 التعلم الذاتي والمستمر. |



ملحق (4)

مصفوفة مضاهاة المعايير الأكاديمية للبرنامج وأهداف ونواتج تعلم البرنامج

| أهداف البرنامج | المعايير الأكاديمية للبرنامج (مواصفات الخريج) |
|----------------|---|
| 1.2. | 1.1. |
| 1.4 | 1-2 |
| 1.5 | 1-3. |
| 1.7. | 1-4 |
| 1.3 | 1-5 |
| 1.5 . | 1-6 |
| 1.8 | 1-7 |
| 1.6 | 1-8 |
| 1.7 | 1-9 |



| نواتج تعلم البرنامج | | | | | | | | | | المعايير الأكاديمية للبرنامج |
|---------------------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--|
| المعرفة و الفهم | | | | | | | | | | |
| 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 DIPLOMA program, the candidate should recognize and understand the followings:</i> 2.1.1 |
| | ✓ | ✓ | | | | | | | | 2.1.2 |
| | ✓ | ✓ | | | | | | | | 2.1.3 |
| ✓ | ✓ | ✓ | | | | ✓ | | | | 2.1.4 |

| نواتج تعلم البرنامج | | | | | | | | | | المعايير الأكاديمية للبرنامج |
|---------------------|-------|-------|-------|-------|-------|-------|--------|--------|--|---|
| Intellectual skills | | | | | | | | | | |
| 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>the end of DIPLOMA 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 |

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



| نواتج تعلم البرنامج | | | | | | المعايير الأكاديمية للبرنامج المهارات العامة والمنتقلة |
|--------------------------------|--------|-------|-------|-------|-------|--|
| General and transferable skill | | | | | | |
| 2.d.1. | 2.d.2. | 2.d.3 | 2.d.4 | 2.d.5 | 2.d.6 | |
| | | | | √ | | By the end of diplom 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 |



ملحق (5)

مصفوفة المقررات مع أهداف ونواتج تعلم البرنامج

(Program courses and ILOs matrix)

| ILOs Courses & Codes | | Knowledge & Understanding 2.a. | | | | | | | | | |
|---|--------|-----------------------------------|---|---|---|---|---|---|---|---|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| التشريح التطبيقي | SM 501 | | | | | | | | | | |
| الفسولوجيا التطبيقية | SM 502 | | | | | | | | | | |
| الفارماكولوجيا | SM 503 | | | | | | | | | | |
| المنشطات والقوانين المنظمة لها | SM 504 | | | | | | | | | | |
| الكيمياء الحيوية فيما يخص الطب الرياضي | SM 505 | | | | | | | | | | |
| طرق البحث والإحصاء | SM 506 | | | | | | | | | | |
| التغذية فيما يخص الطب الرياضي | SM 507 | | | | | | | | | | |
| العلوم السلوكية وعلاقتها بالطب الرياضي | SM 508 | | | | | | | | | | |
| الرياضي المتحد الأولمبي | SM 509 | | | | | | | | | | |
| القوانين الدولية المنظمة للرياضة | SM 510 | | | | | | | | | | |
| مقدمة في علم ميكانيكا الحركة | SM 511 | | | | | | | | | | |
| أمراض الباطنة فيما يخص الطب الرياضي | SM 512 | | | | | | | | | | |



| | | | | | | | | | | | | | | | | | | | | |
|--|--------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| إصابات الملاعب | SM 513 | | | | | | | | | | | | | | | | | | | |
| مقرر في طب الطوارئ | SM 514 | | | | | | | | | | | | | | | | | | | |
| مقرر الجلدية فيما يخص الطب الرياضي | SM 515 | | | | | | | | | | | | | | | | | | | |
| مقرر الطب النفسي فيما يخص الطب الرياضي | SM 516 | | | | | | | | | | | | | | | | | | | |

| ILOs Courses & Codes | | Intellectual Skills 2.b. | | | | | | | | | | | | | | | | | | |
|--|--------|-----------------------------|---|---|---|---|---|---|---|---|--|--|--|--|--|--|--|--|--|--|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | | | | | | | | | |
| التشريح التطبيقي | SM 501 | | | | | | | | | | | | | | | | | | | |
| الفسولوجيا التطبيقية | SM 502 | | | | | | | | | | | | | | | | | | | |
| الفارماكولوجيا | SM 503 | | | | | | | | | | | | | | | | | | | |
| المنشطات والقوانين المنظمة لها | SM 504 | | | | | | | | | | | | | | | | | | | |
| الكيمياء الحيوية فيما يخص الطب الرياضي | SM 505 | | | | | | | | | | | | | | | | | | | |
| طرق البحث والإحصاء | SM 506 | | | | | | | | | | | | | | | | | | | |
| التغذية فيما يخص الطب الرياضي | SM 507 | | | | | | | | | | | | | | | | | | | |
| العلوم السلوكية وعلاقتها بالطب الرياضي | SM 508 | | | | | | | | | | | | | | | | | | | |
| الرياضي المتحد الأولمبي | SM 509 | | | | | | | | | | | | | | | | | | | |
| القوانين الدولية المنظمة | SM 510 | | | | | | | | | | | | | | | | | | | |



| للرياضة | | | | | | | | | | |
|--|--------|--|--|--|--|--|--|--|--|--|
| مقدمة في علم ميكانيكا الحركة | SM 511 | | | | | | | | | |
| أمراض الباطنة فيما يخص الطب الرياضي | SM 512 | | | | | | | | | |
| إصابات الملاعب | SM 513 | | | | | | | | | |
| مقرر في طب الطوارئ | SM 514 | | | | | | | | | |
| مقرر الجلدية فيما يخص الطب الرياضي | SM 515 | | | | | | | | | |
| مقرر الطب النفسي فيما يخص الطب الرياضي | SM 516 | | | | | | | | | |





| Courses & Courses | ILOs | Practical & Clinical Skills 2.c. | | | | | | |
|--|--------|-------------------------------------|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| التشريح التطبيقي | SM 501 | | • | | • | | | |
| الفسولوجيا التطبيقية | SM 502 | | • | | | | | |
| الفارماكولوجيا | SM 503 | | | | | | | |
| المنشطات والقوانين المنظمة لها | SM 504 | | | | | | | |
| الكيمياء الحيوية فيما يخص الطب الرياضي | SM 505 | | | | | | | |
| طرق البحث والإحصاء | SM 506 | | | | | | | |
| التغذية فيما يخص الطب الرياضي | SM 507 | | | | | | | |
| العلوم السلوكية وعلاقتها بالطب الرياضي | SM 508 | | | | | | | |
| الرياضي المتحد الأولمبي | SM 509 | | | | | | | |
| القوانين الدولية المنظمة للرياضة | SM 510 | | | | | | | |
| مقدمة في علم ميكانيكا الحركة | SM 511 | | | | | | | |
| أمراض الباطنة فيما يخص الطب الرياضي | SM 512 | • | | • | | | • | |
| إصابات الملاعب | SM 513 | • | • | • | • | • | • | • |
| مقرر في طب الطوارئ | SM 514 | • | • | • | • | | • | |
| مقرر الجلدية فيما يخص الطب الرياضي | SM 515 | • | | • | | | • | |
| مقرر الطب النفسي فيما يخص الطب الرياضي | SM 516 | • | | • | | | • | |



| ILOs | | General & transferable 2.d. | | | | | |
|--|--------|--------------------------------|---|---|---|---|---|
| Courses & Codes | | 1 | 2 | 3 | 4 | 5 | 6 |
| التشريح التطبيقي | SM 501 | | | | | | |
| الفسولوجيا التطبيقية | SM 502 | | | | | | |
| الفارماكولوجيا | SM 503 | | | | | | |
| المنشطات والقوانين المنظمة لها | SM 504 | | | | | | |
| الكيمياء الحيوية فيما يخص الطب الرياضي | SM 505 | | | | | | |
| طرق البحث والإحصاء | SM 506 | | | | | | |
| التغذية فيما يخص الطب الرياضي | SM 507 | | | | | | |
| العلوم السلوكية وعلاقتها بالطب الرياضي | SM 508 | | | | | | |
| الرياضي المتحد الأولمبي | SM 509 | | | | | | |
| القوانين الدولية المنظمة للرياضة | SM 510 | | | | | | |
| مقدمة في علم ميكانيكا الحركة | SM 511 | | | | | | |
| أمراض الباطنة فيما يخص الطب الرياضي | SM 512 | | | | | | |
| إصابات الملاعب | SM 513 | | | | | | |
| مقرر في طب الطوارئ | SM 514 | | | | | | |
| مقرر الجلدية فيما يخص الطب الرياضي | SM 515 | | | | | | |
| مقرر الطب النفسي فيما يخص الطب الرياضي | SM 516 | | | | | | |



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
لدبلوم طب الرياضى

| بيانات المقرر | | |
|---|--|--------------------------|
| الفرقة / المستوى : جزء أول | اسم المقرر : مقرر علمي في التشريح التطبيقي | الرمز الكودي : SM 501 |
| عدد الوحدات الدراسية : نظري 2 credit hours | | التخصص : |
| <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> | | هدف المقرر: |
| 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> Bones :- Functions , classifications , structure of living bone , general features , growth and blood supply -Cartilages : general features , types -Joints :classifications (fibrous , cartilaginous , synovial) , types of synovial joints , structure of synovial joints , movements -Skeletal muscles : characters , functions -Fascia : types , characters , derivatives -Spinal nerves : classification , origin ,course and structure | 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> -Muscles of facial expression , muscles of mastication and tempromandibular joint (T.M.J.) -Muscles of neck :suprahyoid& Infrahyoid muscles , scalene muscles, prevertebral muscles , muscles of back of neck -Joints , ligaments and movements of vertebral column -Nerves of head and neck :-Cranial nerves ,cervical plexus | 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> Upper limb :-Muscles of: pectoral region , shoulder ,back of trunk ,arm ,forearm and hand -Joints ,ligaments and movements of upper limb -Nerves : brachial plexus ,nerves of upper limb | | | | | |
| *Lower limb :-Muscles of : front medial and back of the | | | | | |



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 | المهارات المهنية |
| | ■ | ■ | 2.c.1 | |
| ■ | ■ | ■ | 2.c.2 | |
| ■ | ■ | ■ | 2.c.3 | |
| ■ | ■ | ■ | 2.c.4 | |
| ■ | ■ | ■ | 2.c.5 | |
| ■ | ■ | ■ | 2.c.6 | المهارات العامة |
| ■ | ■ | ■ | 2.d.1 | |

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 The Anatomical Basis of Clinical Practice Editor in Chief: Susan Standing eBook ISBN: 9780702077104 Hardcover ISBN: 9780702077050 Paperback ISBN: 9780702077067 Imprint: Elsevier Published Date: 21st October 2020 Page Count: 1606 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 & physiology</i> . Boston. | ج- كتب مقترحة |
| https://www.coursera.org/specializations/anatomy | 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 |
| 1) General anatomy | x | x | x | x | x | | | x | x | | | | x | | x | | | | |
| 2) Head and neck Disease | | | x | | | X | x | x | | | | | | | | x | | x | x |
| 3) UPPER, LOWER LIMBS AND THORAX | | | | x | | | x | x | x | x | x | | | | | | x | x | x |
| 4) NEUROANATOMY | | | 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: Diploma of Sports Medicine (SM 500)

Code: SM 502

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



| <u>Lectures</u> | |
|---|---|
| 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 dept 5- explain VO ₂ 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">1-Enumerate properties of respiratory membrane2- enumerate properties of respiratory gases3- explain ventilation perfusion ratio |
| Oxygen transport by blood | <ol style="list-style-type: none">1-explain forms of oxygen transport by blood2- discuss oxygen dissociation curve |
| Carbon dioxide transport in the blood | <ol style="list-style-type: none">1-explain forms of CO₂ transport by blood2- discuss CO₂ dissociation curve |
| Pulmonary function testing | <ol style="list-style-type: none">1-Explain static tests2- explain dynamic tests |
| Ventilatory response during exercise | <ol style="list-style-type: none">1-pulmonary ventilation during exercise2-pulmonary perfusion during exercise3- gas exchange during exercise4-respiratory adaptation to training |
| Control of breathing | <ol style="list-style-type: none">1-Enumerate respiratory centers2-nervous regulation of respiration3-chemical regulation of respiration |
| Cardiac output | <ol style="list-style-type: none">1-define COP2- enumerate variations of COP3-Explain regulation of COP |



| | |
|---|---|
| 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% |
| Total | 100 | 100% |

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.

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: Diploma Of Science(Pharmacology) Sports Medicine

.Code: SM 503

- 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

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



| | |
|------------------------------------|------------------|
| 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 |



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

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 | 60% |
| Oral | 20 | 40% |
| Total | 50 | 100% |

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

5-E) Examination description:

| Examination | Description |
|--------------------|---|
| 1- Written | MCQ ,compare , explain, short essay questions |
| 2 - Oral | 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 12th edition.6.4- **web Sites:** 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: 1st 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

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.

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 :

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

| | | | |
|---|----------|----------|--------------|
| <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> |

| | | | |
|---|-----------|-----------|--------------|
| 14-Concussion in Sports & Posttraumatic Stress in Athletes | 1 | 1 | 6.6 % |
| 15- Ethical issues and doping control | 1 | 1 | 6.6 % |
| TOTAL | 15 | 15 | 100% |

4 Teaching and learning methods:

METHODS USED:

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

| Method | Evidence | ILOs |
|---|---|---|
| <i>Modified lectures/ Tutorials</i> | <i>CDs of lectures including (video films, brainstorming, problemsolving, etc...)</i> | <i>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</i> |
| <i>Case study</i> | <i>Case scenarios</i> | <i>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</i> |

5-A) ATTENDANCE CRITERIA:

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

5-B) Assessment TOOLS:



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

5-C) TIME SCHEDULE:

Final Exam at April or October.

FORMATIVE ASSESSMENT:

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

5-D) Weighting System:

| <i>Examination</i> | <i>Marks allocated</i> | <i>% of Total Marks</i> |
|---------------------------|-------------------------------|--------------------------------|
| <i>Written</i> | 30 | 60% |
| <i>Oral</i> | 20 | 40% |
| <i>Total</i> | 50 | 100% |



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. Schwelldnus. ©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 Adly



Benha University
Faculty of Medicine

Department of Biochemistry.

Course Specifications

Academic Year: 2020 – 2021.

| 1- Course information | | |
|--|---|-------------------|
| (Code): SM 505. | Course title: Diploma Degree in sports medicine. | First part |
| Department offering the course: Medical Biochemistry. | Teaching hours: <u>1</u> credit hour = <u>15</u> total teaching hours. <ul style="list-style-type: none">• Allocated marks: <u>50</u> marks.• Course duration: <u>15</u> weeks of teaching. | |

| | |
|---|---|
| 2- <u>Overall Aim of the Course:</u> | 1.1. Illustrate the contribution of the organs in metabolic process under different physiological circumstances; 1.2. To enable the student to understand the bioenergetics of the concerned metabolic pathways |
|---|---|



| | |
|--|---|
| | <p>under different physiological circumstances and their integrator regulations with other working metabolic pathways;</p> <p>1.3. Enable students to point out and understand the 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> |
| 3- <u>Intended Learning Outcomes (ILOs)</u> | |
| A- 2.1- Knowledge | <p><i>By the end of the course, students should be able to:</i></p> <p>2.a. 1Describe the main metabolic pathways of the three main dietary sources of energy: carbohydrates,</p> |



| | |
|--|--|
| <p>an understand ing:</p> | <p>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 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</p> | <p><i>By the end of the course, students should be able to:</i></p> <p>2.d. 1 Communicate properly with the staff</p> |



| | | | | |
|---|--|------------------------|--------------------|-------------------|
| skills: | members as well as with each other. 2.d. 2 Work effectively in groups. 2.d. 3 Use available resources to get data & knowledge. | | | |
| 4- Course contents: | | | | |
| Subject | Lectures (hrs) | Tutorials (hrs) | Total (hrs) | % of Total |
| 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 | |



توصيف برنامج الدبلوم في الطب الرياضي



| | | | | |
|--|-----|-----|-----|--|
| Urea cycle, NPN compounds | 1/2 | --- | 1/2 | |
| Heme metabolism and hemoglobinopathies | 1/2 | --- | 1/2 | |
| Porphyria and Jaundice | 1/2 | 1/2 | 1 | |
| Insulin, steroid, thyroid and parathyroid hormones | 1/2 | --- | 1/2 | |
| Plasma enzymes & their diagnostic values | --- | 1/2 | 1/2 | |
| Vitamins & their deficiency manifestation | 1 | --- | 1 | |
| Calcium & phosphate homeostasis, sodium, potassium, iron, zink and their deficiency manifestation. | 1 | --- | 1 | |
| Hyperuricemia & gout | 1/2 | --- | 1/2 | |
| DNA structure, replication, transcription & Regulation of gene expression | 1/2 | --- | 1/2 | |



| | | | | |
|---|--|-----|-----|-----|
| RNA structure, transcription and posttranscriptional modification | 1/2 | --- | 1/2 | |
| Cell cycle & apoptosis, DNA damage, mutation and repair | 1/2 | --- | 1/2 | |
| Protein synthesis: translation and posttranslational modifications | 1/2 | --- | 1/2 | |
| Recombinant DNA technology, blotting techniques and gene therapy. | 1/2 | 1/2 | 1 | |
| Liver & kidney function tests, Urine, blood, and sweat: normal and abnormal constituents& their clinical relevance. | 1 | --- | 1 | |
| Total | 12 | 3 | 15 | 100 |
| <u>5- Teaching and learning methods:</u> | METHODS USED: 3. Lectures 4. Tutorials 5. E learning | | | |
| <u>6- Students Assessment methods:</u> | | | | |
| <u>A- Assessment</u> | | | | |



| <u>TOOLS:</u> | Tool | | Purpose (ILOs) | |
|------------------------------------|---|-----------|---|-------------------------|
| | Written examination | | To assess knowledge & intellectual skills. | |
| | Oral examination | | To assess knowledge, intellectual skills & general & transferable skills. | |
| <u>B- TIME SCHEDULE:</u> | Exam | | week | |
| | 1- Final exam | | April or October | |
| <u>C- Weighting System:</u> | 1- FORMATIVE ASSESSMENT: Student knows his marks after the Formative exams. | | | |
| | 2- SUMMATIVE ASSESSMENT | | | |
| | Examination | | Marks allocated | % of Total Marks |
| | 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% | |
| Total | | 50 | 100% | |
| <u>List of references:</u> | | | | |
| 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.



توصيف برنامج الدبلوم فى الطب الرياضى



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

توصيف مقرر

SM 506

| |
|--|
| بيانات المقرر |
| اسم المقرر: Methods of research and statistics |
| الرمز الكودى : SM 506 |
| التخصص : Sport medicine |
| المستوى : First part of Diploma 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">• Sampling• Screening• Survey• Epidemiological | 4 | | 4 |



| studies | | | |
|---|----------------|----------|-----------|
| Summarization of data: <ul style="list-style-type: none">• Measures of central tendency• Measures of scatter | 2 | | 2 |
| Presentation of data: <ul style="list-style-type: none">• Tabular presentation• Graphic presentation• Mathematical presentation | 3 | | 3 |
| Hypothesis testing steps | 1 | | 1 |
| Tests of significance: <ul style="list-style-type: none">• Parametric tests• Non parametric tests | 2 | | 2 |
| Total | 15 hrs. | - | 15 |

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 فى مجلس القسم رقم () بتاريخ

المسنول عن المقرر : ا.د/ رشا شاكر الدسوقي

رئيس القسم : ا.د/ حسنى عبدالرحمن





جامعة: بنها
كلية: الطب البشرى
قسم : الطب الرياضى

توصيف مقرر

SM 507

| |
|---|
| بيانات المقرر |
| اسم المقرر Nutrition |
| الرمز الكودى: SM 507 |
| التخصص: sports Medicine |
| المستوى: First part of Diploma 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- محتوي المقرر:

| Topics | Lectures | Practical | Total | % of total hours of 1 st 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 | | 1.5 |
| Therapeutic nutrition Diabetic patient Hypertensive patient Renal patient Hepatic patient | 2 | | 2 |
| Nutritional health problems:- :Protein energy malnutrition Marasmus Kwashiorkor | 0.5 | | 0.5 |
| :Vitamin deficiency | 1 | | 1 |



| | | | |
|--|---|---|---|
| :Anaemias Iron deficiency anaemia Megaloblasticanaemia | 1 | | 1 |
| Dental caries Osteoporosis &osteomalachia | 1 | . | 1 |
| Obesity | 1 | | 1 |

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-تقويمالطلاب:

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:
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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 فى مجلس القسم رقم (

المسنول عن المقرر: أ.د

رئيس القسم: أ.د د



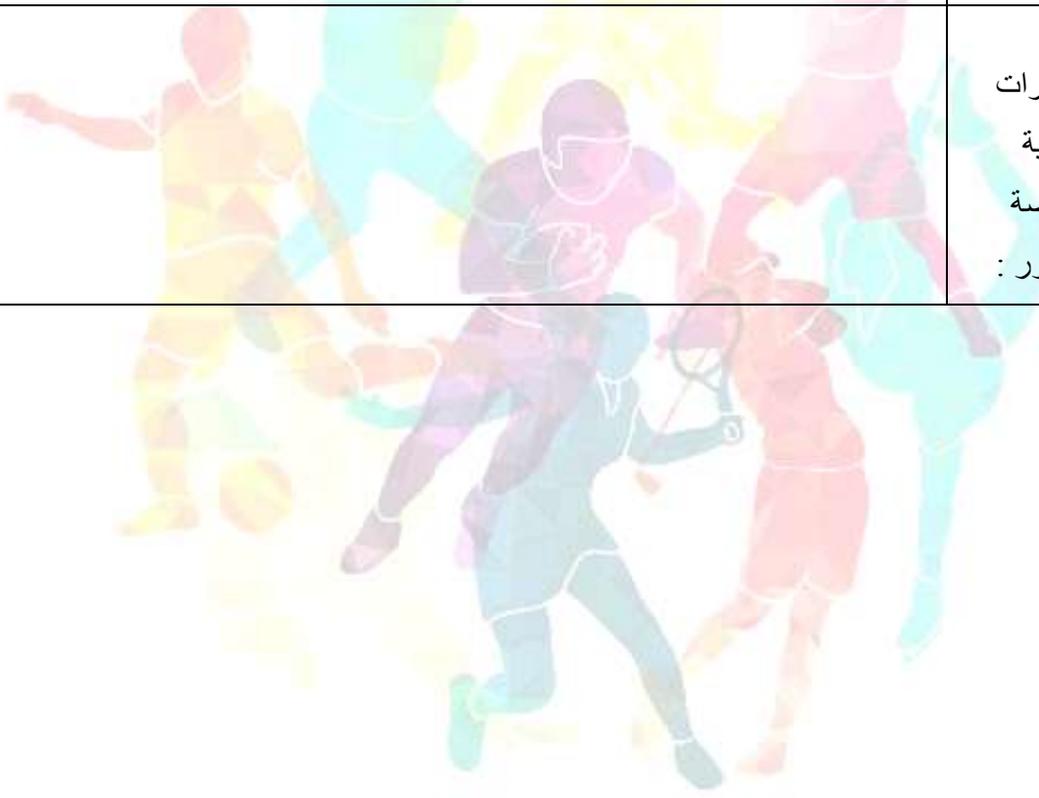
توصيف مقرر علمي في العلوم السلوكية وعلاقتها بالطب الرياضي
دبلوم الطب الرياضي

| 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 508 |
| | عدد الوحدات الدراسية : [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 : |
| 1- المستهدف من تدريس المقرر : <i>By the end of the course, the student should be able to:</i> | | |



| | |
|--|---|
| <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-</p> <p>المهارات الذهنية:</p> |
|  | <p>ج-</p> <p>المهارات المهنية الخاصة بالمقرر :</p> |



| | |
|--|--------------------------------------|
| <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> | <p>د - المهارات العامية:</p> |
|--|--------------------------------------|



| ILOs | Subject | -3 محتوى المقرر: |
|---|---|------------------------|
| 2.a.1,2.a.3,2.a.6,2.a.10 2.b.1,2.b.4,2.b.5,2.b.8 &2.d.1,2.d.5,2.d.6,2.d.7,2.d.9 | 1- Introduction &historical background | |
| 2.a.1,2.a.3,2.a.6,2.a.10 2.b.1,2.b.4,2.b.5,2.b.8 &2.d.1,2.d.5,2.d.6,2.d.7,2.d.9 | 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 | |
| 2.a.1,2.a.3,2.a.6,2.a.10 2.b.1,2.b.4,2.b.5,2.b.8 &2.d.1,2.d.5,2.d.6,2.d.7,2.d.9 | 5-Personality | |
| 2.a.2,2.a.3,2.a.7,2.a.8& 2.b.3,2.b.4,2.b.,2.b.7 &2.d.3,2.d.4,2.d.6,2.d.8,2.d.9 | 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 | |
| 2.a.1,2.a.3,2.a.6,2.a.10 2.b.1,2.b.4,2.b.5,2.b.8 &2.d.1,2.d.5,2.d.6,2.d.7,2.d.9 | 9- Perception, Attention, Sensory deprivation | |
| 2.a.2,2.a.3,2.a.7,2.a.8& ,2.b.7 52.b.3,2.b.4,2.b. &2.d.3,2.d.4,2.d.6,2.d.8,2.d.9 | 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 | |
| 2.a.2,2.a.3,2.a.7,2.a.8& 2.b.3,2.b.4,2.b.4,2.b.7&2.e.3,2.e.5,2.e.6 &2.d.3,2.d.4,2.d.6,2.d.8,2.d.9 | 12- Intelligence, Imagination | |



| | |
|---|---|
| 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 ذوي القدرات المحدودة |
| -6 تقويم الطلاب : | |
| <ul style="list-style-type: none">• 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 ب المستخد مة |
| Final exam in May or November | ب- التوقيت |
| <ul style="list-style-type: none">• Written: 30• Oral: 20 | ج- توزيع الدرجا ت |
| -7 قائمة الكتب الدراسية والمراجع : | |
| Behavior sciences, medical psychology Prof:Ahmed Okasha 2015 | أ- مذكرا ت |
| 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 |



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|---|---------------------------------------|
| <ul style="list-style-type: none">▪ WHO.int.com▪ Pub. Med▪ Google <ol style="list-style-type: none">1. International journal of sport and exercise psychology2. American journal of psychology.3. International journal of sport psychology | د - دوريات علمية أو نشرات |
|---|---------------------------------------|

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 |



توصيف برنامج الدبلوم في الطب الرياضي



| | | | | |
|--|---|--|--------|--------|
| | * | | 2.d.2 | العامة |
| | * | | 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 | 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.a.12 | |
| * | * | 2.a.13 | |
| * | * | 2.b.1 | المهارات الذهنية |
| * | * | 2.b.2 | |
| * | * | 2.b.3 | |
| * | * | 2.b.4 | |
| * | * | 2.b.5 | |
| * | * | 2.b.6 | |
| | | 2.d.1 | المهارات |



توصيف برنامج الدبلوم فى الطب الرياضي

| | | | |
|--|--|--------|--------|
| | | 2.d.2 | العامة |
| | | 2.d.3 | |
| | | 2.d.4 | |
| | | 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

| | | |
|---|---|---|
| 1- Course information | | |
| Code: SM 509 | Course name: الرياضي المتحد الأولمبي | Grade/ Level: Diploma of Sports Medicine |
| Number of modules: 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.

| | |
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| 2- Goal of the Course: | To provide the candidate with International Governance of Individual Sports |
| 3- Target educational output: | |



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|--|--|
| A- Knowledge and understanding: | By the end of the course the candidate will be able to: 2.a. 1 Define Olympica and Olympic chat=rter 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- Intellectual skills: | By the end of the course the candidate will be able to: 2.b. 1 Differentiate between Olympic and paralympic 2.b. 2 Classify Sports law |
| C- Professional and practical skills: | |
| D- General & Transferable skills | By the end of the course the candidate will be able to: 2.d.1 Utilize effectively various computer based instruction tools and E-learning and utilize a variety of computer-based self assessment tools. |

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| 4- Course content: | <ul style="list-style-type: none">• International Governance of Individual Sports<ol style="list-style-type: none">1. Olympic Games2. Olympic Charter3. International Olympic Committee (IOC)4. International Sports Federations (IFs)5. National Olympic Committees |
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| | (NOCs) 6. Organising Committees of the Olympic Games (OCOGs) |
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|----------------------------------|--|-------------------|---------------------|------------------|
| 5- Teaching and learning methods | <ul style="list-style-type: none">Modified LecturesSmall Group discussion | | | |
| | طرق الدريس | | 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">Written Exam: Assess Knowledge & Understanding and intellectual skillsOral Exam: Assess Knowledge & Understanding, intellectual and general & transferable skills | | | |
| | طرق التقويم | | نواتج التعلم للمقرر | |
| | Oral Exam | Written exam | | |
| | ✓ | ✓ | 2.a.1 | المعرفة والفهم |
| | ✓ | ✓ | 2.a.2 | |



توصيف برنامج الدبلوم فى الطب الرياضي



| | | | | |
|---|--|---|-------|-----------------|
| | ✓ | ✓ | 2.a.3 | |
| | ✓ | ✓ | 2.a.4 | |
| | ✓ | ✓ | 2.b.1 | المهارات |
| | ✓ | ✓ | 2.b.2 | الذهنية |
| | ✓ | | 2.d.1 | المهارات العامة |
| B- Timing | April or October | | | |
| C- Distribution of grades | <ul style="list-style-type: none">• Written Exam: 30 marks• Oral Exam: 20 marks | | | |
| 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

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|---|---|--|
| 8- Course information | | |
| Code: SM 510 | القوانين Course name: الدولية المنظمة للرياضة | Grade/ Level: Diploma of Sports Medicine |
| Number of modules: 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.**

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| 9- Goal of the Course: | To provide the candidate with legal issues of sports. |
| 10- Target educational output: | |



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| E- Knowledge and understanding: | By the end of the course the candidate will be able to: 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. 2.a. 7 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 |
| F- Intellectual skills: | By the end of the course the candidate will be able to: 2.b. 3 Classify types of sports 2.b. 4 Classify Sports law |
| G- Professional and practical skills: | |
| H- General & Transferable skills | By the end of the course the candidate will be able to: 2.d.1 Utilize effectively various computer based instruction tools and E-learning and utilize a variety of computer-based self assessment tools. |

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| 11- Course content: | <ul style="list-style-type: none">• 1. Introduction<ul style="list-style-type: none">1.1. Scope of Guide1.2. List of Key Abbreviations2. Court of Arbitration for Sport<ul style="list-style-type: none">2.1. Overview2.2. Arbitral Awards• 3. Anti-Doping<ul style="list-style-type: none">3.1. World Anti-Doping Agency (WADA) |
|---------------------|--|



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|--|---|
| | 3.2. National Anti-Doping Agencies 3.3. Anti-Doping Treaties and Declarations |
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| 12- Teaching and learning methods | <ul style="list-style-type: none">Modified LecturesSmall Group discussion | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|--|---------------------|-----------------|---------------------|--|------------------------|-------------------|--|--|---|---|-------|----------------|---|---|-------|---|---|-------|---|---|-------|---|---|-------|----------|---|---|-------|---------|---|---|-------|-----------------|
| | <table border="1"><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 |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13- Student evaluation: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D- The methods used | <ul style="list-style-type: none">Written Exam: Assess Knowledge & Understanding and intellectual skillsOral Exam: Assess Knowledge & Understanding, intellectual and general & transferable skills | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"><thead><tr><th colspan="2">طرق التقويم</th><th colspan="2">نواتج التعلم للمقرر</th></tr><tr><th>Oral Exam</th><th>Written exam</th><th></th><th></th></tr></thead><tbody><tr><td>✓</td><td>✓</td><td>2.a.1</td><td rowspan="3">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></tbody></table> | طرق التقويم | | نواتج التعلم للمقرر | | Oral Exam | Written exam | | | ✓ | ✓ | 2.a.1 | المعرفة والفهم | ✓ | ✓ | 2.a.2 | ✓ | ✓ | 2.a.3 | | | | | | | | | | | | | | | |
| طرق التقويم | | نواتج التعلم للمقرر | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oral Exam | Written exam | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ✓ | ✓ | 2.a.1 | المعرفة والفهم | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ✓ | ✓ | 2.a.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ✓ | ✓ | 2.a.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



توصيف برنامج الدبلوم فى الطب الرياضي



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|---------------------------|--|---|-------|-----------------|
| | ✓ | ✓ | 2.a.4 | |
| | ✓ | ✓ | 2.b.1 | المهارات |
| | ✓ | ✓ | 2.b.2 | الذهنية |
| | ✓ | | 2.d.1 | المهارات العامة |
| E- Timing | April or October | | | |
| F- Distribution of grades | <ul style="list-style-type: none">• Written Exam: 30 marks• Oral Exam: 20 marks | | | |
| 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

| | | |
|---|--|---|
| 15- Course information | | |
| Code: SM 511 | Course name: مقدمة في علم ميكانيكا الحركة | Grade/ Level: Diploma of Sports Medicine |
| Number of modules: 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.

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



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| I- Knowledge and understanding: | 2.a.1 List the recent advances in the abnormal structure, function, growth and development of musculoskeletal system. 2.a.2 Mention recent advances in biomechanics. |
| J- Intellectual skills: | 2.b.1. Interpret data acquired to understand applied physiology and biochemical reactions of musculoskeletal system. 2.b.2 innovate nontraditional solutions to for musculoskeletal & traumatology problems. |
| K- Professional and practical skills: | |
| L- General & Transferable skills | 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. |

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| 18- Course content: | 1- Biomechanics in the sports field. 2- Terminology used in the study of movement. 3- Basic concepts and principles in mechanics 4- Strength: to maintain equilibrium or to change motion. 5- Kinematics of movement in a straight |
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|-----------------------------------|--|-------------------|---------------------|-----------------|
| 19- Teaching and learning methods | <ul style="list-style-type: none">Modified LecturesSmall Group discussion | | | |
| | 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">Written Exam: Assess Knowledge & Understanding and intellectual skillsOral Exam: Assess Knowledge & Understanding, intellectual and general & transferable skills | | | |
| | 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 | | | |

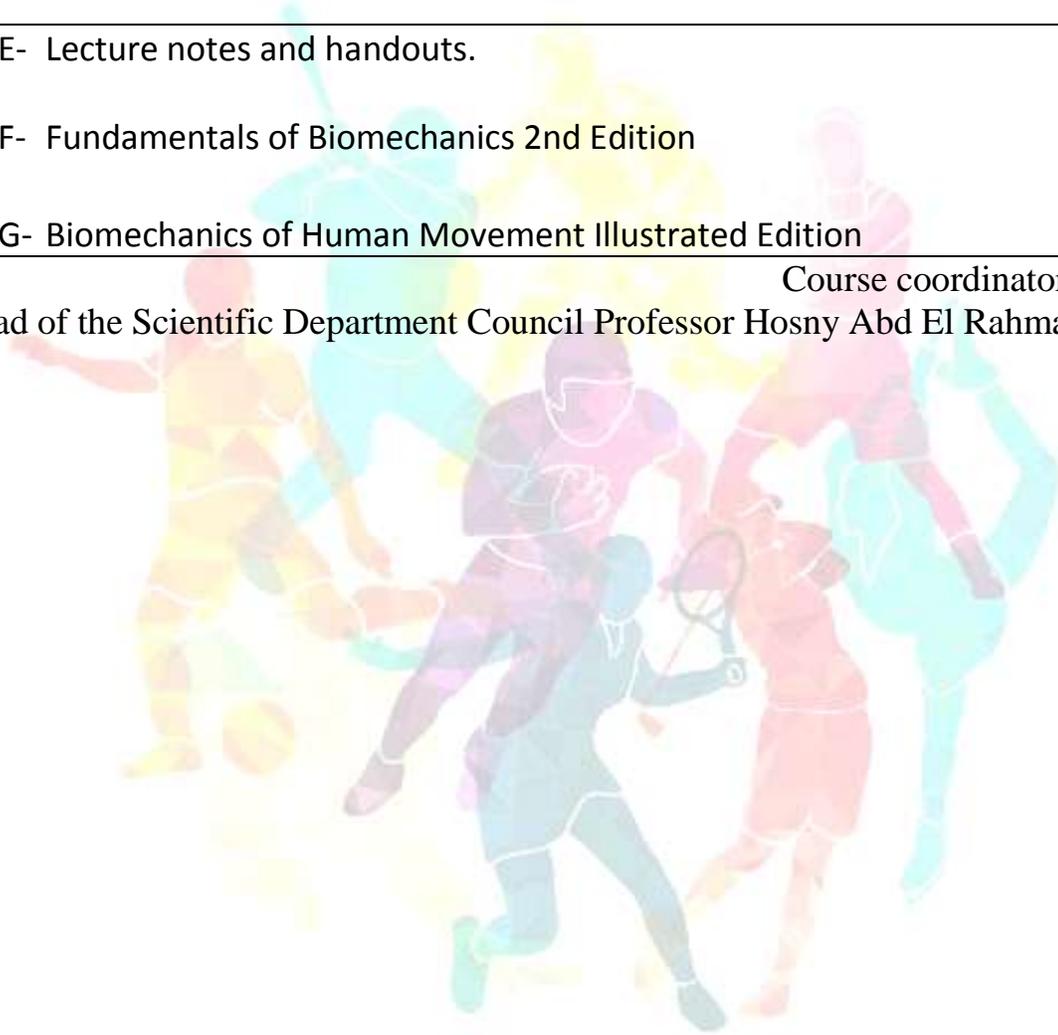


توصيف برنامج الدبلوم فى الطب الرياضي



| | |
|---------------------------|--|
| | |
| I- Distribution of grades | <ul style="list-style-type: none">• Written Exam: 30 marks• Oral Exam: 20 marks |
| 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:
Head of the Scientific Department Council Professor Hosny Abd El Rahman





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

| 6- بيانات المقرر | |
|---|---------------------------|
| اسم المقرر : مقرر علمي في إصابات الملاعب | الرمز الكودي : SMs 513 |
| الفرقة / المستوى : دبلوم جزء ثاني | التخصص : الطب الرياضي |
| عدد الوحدات الدراسية : نظري 10 credit hours (8.5 نظري-1.5 عملي) | 7- هدف المقرر: |
| <ol style="list-style-type: none">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 | |
| 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> |
| <p>Introduction:</p> <ol style="list-style-type: none">1. Epidemiology2. General clinical approach3. general principles of prevention of sports injuries4. Muscle and soft tissue injuries:5. Acute soft tissue injuries6. Prevention of acute muscle injuries in sport <p>Knee injuries:</p> <ol style="list-style-type: none">.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 athlete13. Surgical treatment of chronic knee pain in the athlete | <p>2 محتوى المقرر:</p> |



Leg injuries:

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

3



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|---|---|
| <p>Injuries to lumbar spine in athletes:</p> <ol style="list-style-type: none">1. Functional anatomy of the lumbar spine2. Clinical biomechanics3. Clinical assessment of acute lower back injury4. Acute fractures of the lumbar spine5. Acute soft tissue injuries6. Clinical assessment of chronic lower back pain7. Overuse injuries of the lower back8. Surgical treatment of chronic lower back pain <p>Shoulder injuries:</p> <ol style="list-style-type: none">1. Shoulder dislocation2. Shoulder Instability3. Shoulder impingement4. Rotator cuff tear <p>Elbow injuries:</p> <ol style="list-style-type: none">1. Ligament injuries of the elbow2. Tennis elbow3. Golf elbow <p>Hip injuries:</p> <ol style="list-style-type: none">1. Labral injury of the hip2. Pincer hip (femero acetabular impingement) | 4 |
| <ol style="list-style-type: none">1. lectures2. Clinical rounds3. Round table discussions4. Attending operations | 5 أساليب التعليم والتعلم |
| لا ينطبق | 5- أساليب التعليم والتعلم للطلاب ذوي القدرات المحدودة |
| 6- تقويم الطلاب : | |



| | |
|--|-----------------------|
| <p>3. Written exams: Assess knowledge & understanding and intellectual skills.</p> <p>4. Structured oral exams: to assess knowledge and understanding, intellectual , professional and general and transferable skills.</p> <p>5. Clinical exams: : to assess knowledge and understanding, intellectual, practical & professional and general and transferable skills.</p> | أ- الأساليب المستخدمة |
| <ul style="list-style-type: none">• Final exam at May or November | ب- التوقيت |
| <ul style="list-style-type: none">• Written exam 350• Oral and practical exams 75• Clinical Exam 75 | ج- توزيع الدرجات |
| 7- قائمة الكتب الدراسية والمراجع : | |
| <ul style="list-style-type: none">• Lectures notes | أ- مذكرات |
| <p>- Essential books (text books):</p> <p>Campbell"s Operative Orthopedic,11th edition (Canal & Beat, 2007)</p> <p>6.2- Recommended Books:</p> <p>Surgical exposure in orthopedic, stanle Hoppenfeld, Piet DeBoer, Richard Eric 2009</p> <ul style="list-style-type: none">• 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 |
| <p>https://www.youtube.com/channel/UCZWQHOGoaEGe0RRo5PoNf3A</p> | ج- قناة youtube |

أستاذ المادة رئيس مجلس القسم العلمي



توصيف مقرر الباطنة العامه
لدبلوم الطب الرياضي جزء ثاني

| | | |
|--|---|------------------------|
| 1. بيانات المقرر | | |
| الفرقة / المستوى : دبلوم جزء ثاني | اسم المقرر : مقرر علمي نظري وإكلينيكي في الامراض الباطنة وتخصصاتها العامه | الرمز الكودي : SM 512 |
| عدد الوحدات الدراسية : نظري 10 credit hours | | التخصص : الطب الرياضي |
| 2. هدف المقرر: <i>1. Respond to the educational and research training needs of doctors with a special interest in sports Medicine.</i> <i>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.</i> <i>3. Provide graduates with enough knowledge about disorders of internal organs relevant to sports Medicine</i> <i>4. Improve students' standards of awareness of self-education as researchers and specialists in the field of sports Medicine.</i> | | |
| 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 و الفهم: |



| | |
|--|--|
| <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> |



توصيف برنامج الدبلوم في الطب الرياضي



| 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 2.c.1,2.d.4 | 20% | 7.5 | 3 | 4.5 | 1) NEUROLOGY - 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 | 2) CARDIOLOGY - 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 | 3) NEPHROLOGY. - 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 | 4) CHEST DISEASES - 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 | 5) BLOOD DISEASES - Anemia, - Hemorrhagic blood diseases, - Iron overload. | |
| 2.a.3, 2.b.5, 2.b.4 | 13% | 5 | 1.5 | 3.5 | 6) ENDOCRINE DISEASES - 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 | 7) RHEUMATOLOGY - Gout | |
| 2.a.2, 2.b.4 | 7% | 2.5 | 1 | 1.5 | 8) ACID-BASE BALANCE | |
| 2.a.2, 2.b.5, | 7% | 2.5 | 1 | 1.5 | 9) Na⁺ & K⁺ ABNORMALITIES | |
| | 100% | 37.5 | 14.5 | 23 | Total | |



توصيف برنامج الدبلوم في الطب الرياضي



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 | المهارات الذهنية |
| ■ | ■ | ■ | 2.b.1 | |
| ■ | ■ | ■ | 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 | المهارات العامة |
| ■ | ■ | ■ | 2.d.1 | |
| ■ | ■ | ■ | 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 | 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 | |
| ■ | | | 2.c.4 | |
| ■ | | | 2.d.1 | المهارات العامة |
| ■ | ■ | | 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



| | |
|--|---------------------------|
| <ul style="list-style-type: none">• Examination Marks allocated• Written 350• Oral 75• Clinical 75 | ج- توزيع الدرجات |
| 7- قائمة الكتب الدراسية والمراجع : | |
| <ul style="list-style-type: none">• Lectures notes | أ- مذكرات |
| Harrison's Principles of Internal Medicine, Twentieth Edition (Vol.1 & Vol.2) 20th Edition 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 |
| Davidson's Principles and Practice of Medicine 23rd Edition 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 |
| https://www.coursera.org/learn | 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

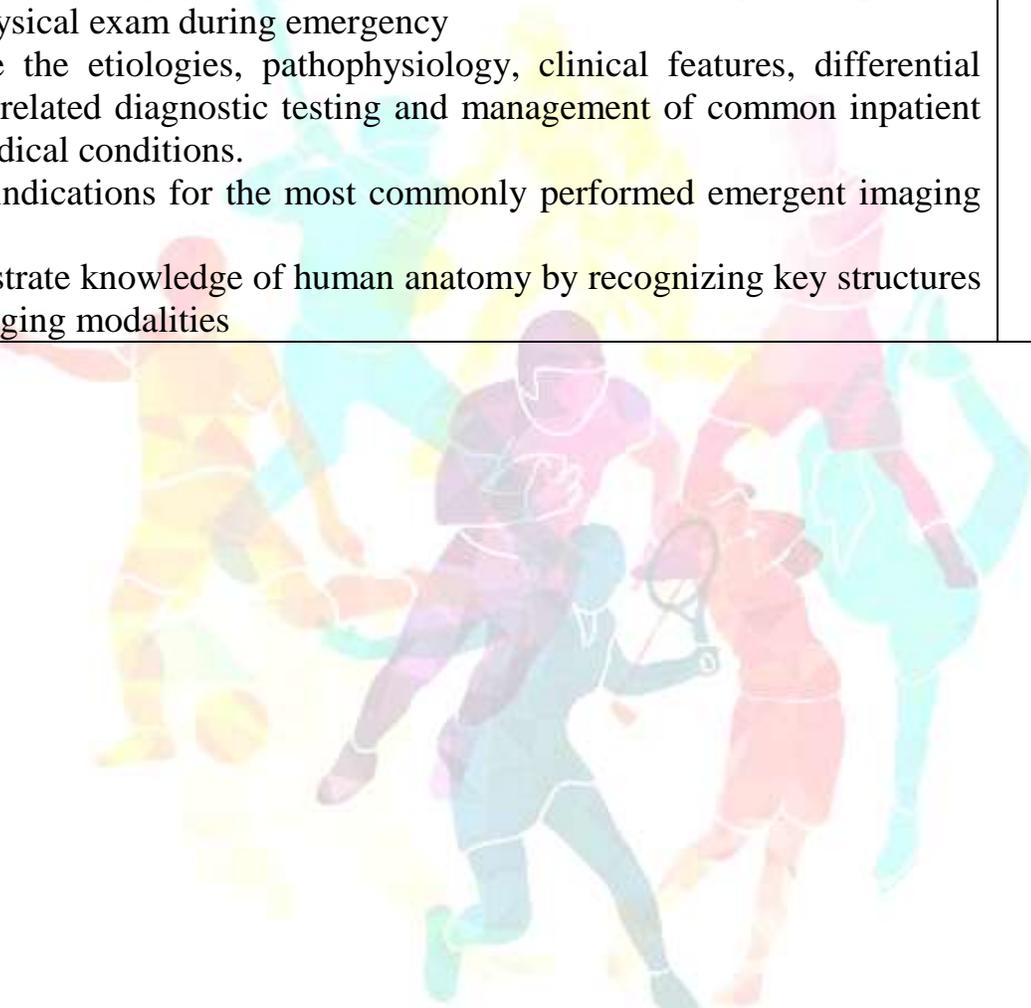
توصيف مقرر طب الطوارئ
لدبلوم الطب الرياضي جزء ثاني

| | |
|--|--|
| 6. بيانات المقرر | |
| الفرقة / المستوى : دبلوم جزء ثاني | اسم المقرر : مقرر علمي في طب الطوارئ |
| | الرمز الكودي : SM 514 |
| | التخصص : الطب الرياضي |
| | عدد الوحدات الدراسية : نظري 6 credit hours |
| 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:



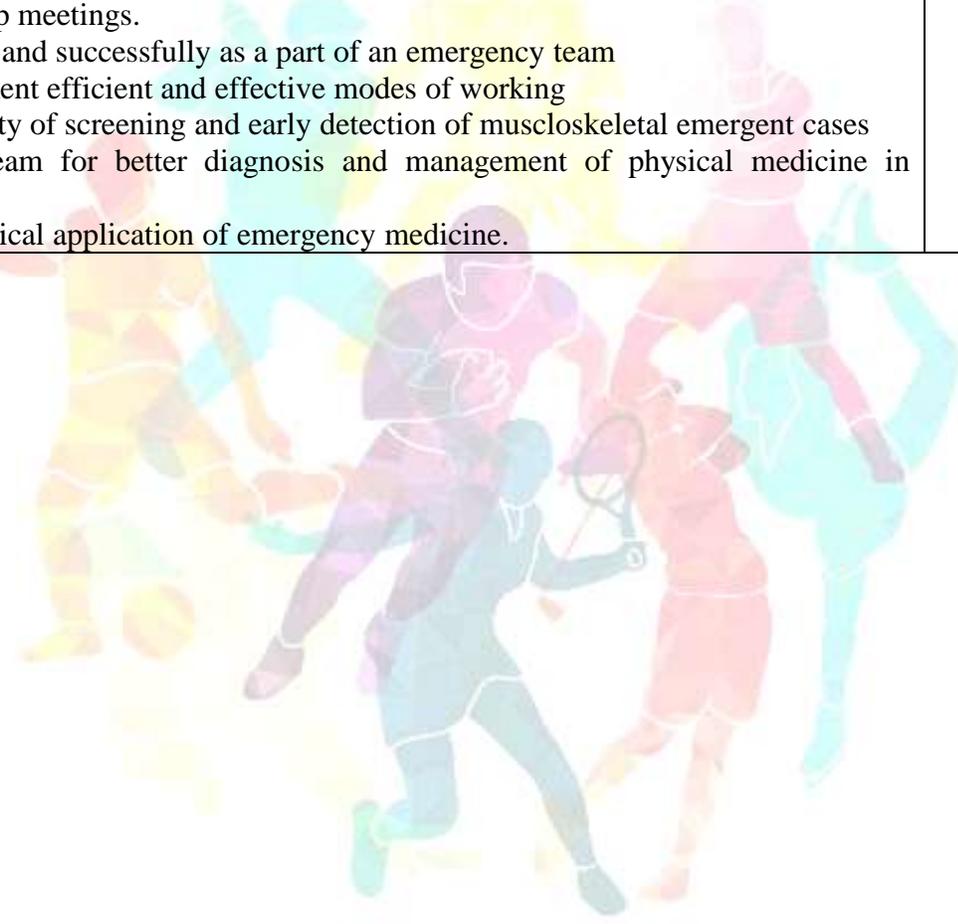


- 2.b.1 complete patient history and physical examination in logical manner .
- 2.b.2 evaluate and prioritize problems with which a patients presents.
- 2.b.3 formulate DD based on the findings from the history and physical examination and apply DD to help guide in emergency situations.
- 2.b.4 formulate 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> |





توصيف برنامج الدبلوم في الطب الرياضي



| 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 | |
| Aanesthesia & 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 | |
| Neuropsychatry emergencies | 10 hr | 4.5 hr | 14.5 | 5.37 | |
| Pediatic 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 | |
| Total | 180 hr | 90 hr | 270 hr | 100 | |



توصيف برنامج الدبلوم في الطب الرياضي



10. أساليب
التعليم
والتعلم

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

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 |

المعرفة والفهم

المهارات الذهنية

المهارات المهنية

المهارات العامة

6- تقييم الطلاب :



توصيف برنامج الدبلوم في الطب الرياضي



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 | 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.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.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 | 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 | |



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



| | |
|---|--------------------------------------|
| <p>Davidson's Principles and Practice of Medicine 23rd Edition</p> <p>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.</p> <p>Essential General surgical operations, 2007. 2nd ed. By R. M. Kirk and marc C. Winslet, Churchill Livingstone.</p> <p>Current Medical Diagnosis & Treatment, 2013. 54th ed. By Maxine papadakis, stephen J. Mcphee and Michael w. Rabow, McGraw Hill Medical.</p> <p>Clinical surgery, 2012. 3rd ed. By Michael M. Henry and Jeremy N. Thompson, Saunders.</p> <p>Sabiston text book of surgery: The biological basis of modern surgical practice, 2012. 19th ed. By Courtney M. Townsend, R. David Beauchamp, b. Mark Evers and Kenneth L. Mattox, Saunders.</p> | <p>ج- كتب مقترحة</p> |
| <p>https://www.coursera.org/learn</p> | <p>د - دوريات علمية أو نشرات</p> |

رئيس اقسام طب الطوارئ
أ.د / جمال السيد صالح



توصيف مقرر الأمراض الجلدية
لدبلوم الطب الرياضي جزء ثاني

| 11. بيانات المقرر | | |
|--|--|--------------------------|
| الفرقة / المستوى : ماجستير جزء ثاني | اسم المقرر : مقرر علمي نظري وإكلينيكي في الأمراض الجلدية | الرمز الكودي : SM 515 |
| 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 Describe the normal development, structure and function of the human integumentary system on the macro and microscopic levels. 3.a.2 Define primary and secondary skin lesions, common dermatologic and dermatopathologic terms. 3.a.3 Discuss ethical guidelines for dermatology practice. 3.a.4 Illustrate the principals of diagnostic, therapeutic and preventive tools of various dermatological illnesses. 3.a.5 Illustrate the pathogenesis of common skin diseases. 3.a.6 Discuss common vaccines, topical and systemic drugs used in dermatology as regard indications, contraindications, mechanism of action, interactions, side effects and uses. 3.a.7 Explain basic knowledge of cosmetic and surgical dermatology and laser therapies. | أ- المعرفة والفهم: | |



| | |
|--|--|
| <p>3.b.1 Interpret data collected from history taking, clinical and histopathological examination and laboratory tests to diagnose different skin diseases.</p> <p>3.b.2 Analyze the available data to choose the suitable and cost effective lab test for diagnosing skin diseases.</p> <p>3.b.3 Analyze the available data to choose the suitable therapeutic option for different dermatoses.</p> <p>3.b.4 Evaluate cases of infectious diseases and assess infectivity of these cases</p> <p>3.b.5 Evaluate 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 Collect 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 Perform physical examination of skin, hair, nails and lymph nodes and discriminate between normal and abnormal findings.</p> <p>3.c.3 Perform 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 Write 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 2.d.1 Communicate effectively with colleagues, patients and health care providers with care and respect.</p> <p>3.d.2 Use standard computer programs effectively in preparing research assignment and in demonstrating data in scientific symposium</p> <p>3.d.3 Enhance his/her lifelong learning skills by using the recent technological facilities</p> <p>3.d.4 Analyze own practical experience to recognize his/her strengths, deficiencies, and limits in knowledge and expertise.</p> <p>3.d.5 Work 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 Use different sources of information to obtain data.</p> <p>3.d.7 Demonstrate respect to all patients irrespective of their socio-</p> | <p>د - المهارات العامة:</p> |



توصيف برنامج الدبلوم في الطب الرياضي



| 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">Diagnosis of skin diseases | |
| 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">Allergic skin disorders | |
| 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">Miliaria | |
| 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 | Infections and infestations <ul style="list-style-type: none">Cutaneous pyogenic infectionsCutaneous viral infectionsMycologyParasitic skin diseases | |
| 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 68 | |
| 3.a.7 | 4.4 | 5 | - | 5 | Varicocele | |
| | 100% | 112.5 | 45 | 67.5 | Total | |



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

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 | |



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

رئيس القسم/
أ.د حنان صبرى



توصيف برنامج الدبلوم في الطب الرياضي





كلية: الطب البشري
قسم: الامراض العصبية والطب النفسي

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

| 1- بيانات المقرر | | |
|---------------------------|---|--------------------------|
| المستوى دبلوم جزء ثاني | اسم المقرر : مقرر علمي في الطب النفسي فيما يخص الطب الرياضي | الرمز الكودي : SM516 |
| <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, schizpphrenia 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 hypocondrisis disease's clinical manifestations and differential diagnosis with medical diseases and lasion 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 ef-fects/pharmacokientics, dosage, drug-drug interactions and adverse reactions.
- 2a7. Describe the principles of non-pharmacological therapies, and their role in disease management (psychotherapy, electroconvulsive therapy, trans-cranial 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
:



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



- 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.

جـ-
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
العامّة:



| 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- Psychiatry history and mental status |
| 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- Mood Disorders |
| 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- Anxiety Disorders |
| 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- Schizophrenia and other psychotic Disorders |
| 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- Alcohol, opioids and other substance related disorders |

-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. Written exams: to assess knowledge, understanding and intellectual skills. 7.a.2. Clinical exams(OSCE): to assess knowledge and understanding, intellectual, practical and professional and General and transferable skills. 7.a.3. Structured oral exams(Viva cards): to assess knowledge and understanding, intellectual and General and transferable skills. Formative only assessment: simple research assignment, Log book, attendance and absenteeism, case study presentation and group project</p> | <p>أ- الأساليب المستخدمة</p> |



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|---|---------------------|
| <ul style="list-style-type: none">Final exam at May or November | ب- التوقيت |
| 7.c. Final-term written examination 50 Oral examination 25 Clinical examination 25 | ج- توزيع الدرجات |
| 8- قائمة الكتب الدراسية والمراجع : | |
| 8.a Course Notes: <ul style="list-style-type: none">Lectures notes prepared by staff members in the department | أ- مذكرات |
| 8.b Essential Books (Text Books): <ul style="list-style-type: none">Synopsis of psychiatry (three volumes) Benjamin James Sadock, Virginia Alcott Sadock 2018Comprehensive Textbook of psychiatry Benjamin J Sadock; VirginiaA Sadock 2018.Case files psychiatry Toy Klamen 2004 | ب- كتب ملزمة |
| 8.c Recommended Books: 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 | |



توصيف برنامج الدبلوم في الطب الرياضي



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| . | * | * | 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 | 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 | |



توصيف برنامج الدبلوم في الطب الرياضي



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|---|---|---|--------|---------------------------------|
| * | * | * | 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

