





## دليل البرنامج

دكتوراه التشريح الآدمى و علم الاجنة
Human Anatomy & Embryology
PhD

(ANA 600)

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## محتوى الدليل

الصفحة	المحتوى
3	
4	لله المقررات الدراسية و توزيعها على الفصول الدراسية وعدد ساعاتها المعتمدة و درجات تقييمها
7	+ طرق التدريس و التقييم
8	<ul> <li>خريطة توضيحية للأنشطة المطلوبة خلال كل فصل دراسى</li> </ul>
10	الإرشاد الأكاديمي
11	+ قوائم التقييم لكل نشاط فصلى

### مدة الدراسة

- ♣ مدة الدراسة سبعة فصول دراسية بحيث تكون مدة الدراسة في الفصل الدراسي الواحد 15 أسبوعا تبدأ عقب القيد للدرجة.
  - ♣ إجمالي متطلبات الحصول على الدرجة العلمية 60 ساعة معتمدة موزعة كما يلي:
    الفصل الدراسي الأول: 8 ساعات معتمدة ويشمل الآتي:
- المقررات الإجبارية المؤهلة، و التي تنظمها إدارة الدراسات العليا بالكلية.
- و تشمل هذه المقررات الدراسات المتقدمة في المجال الطبي (طرق البحث العلمي ، الإحصاء الطبي واستخدام الحاسب الآلي في العلوم الطبية والتعليم الطبي).
- ♣ الفصول الدراسية من الثانى إلى الرابع: يدرس الطالب مقررات أكاديمية إكلينيكية تكاملية متقدمة ويتكون كل مقرر من الآتى:
  - موضوعات أساسية في مادة التخصص: تمثل 80 % من المحتوى.
    - موضوعات إكلينيكية متقدمة: تمثل 20 % من المحتوى.
- ♣ الفصل الدراسى الخامس: يخصص لمقرر تطبيقى تكاملى فى التخصص (ينتهى بالامتحان النهائى الشامل) و الرسالة و المقررات الاختيارية.
- ↓ القصول الدراسية السادس والسابع: تخصص للرسالة و التدريب العملى واستكمال دراسة المقررات
  (إن وجدت).
- الرسالة: يخصص لها 20 ساعة معتمدة يمكن توزيعها على الفصول الدراسية بحد أدنى ساعتين لكل فصل دراسي.
- لا تقل المدة الزمنية لإتمام الرسالة عن عامين. و يجوز للطالب التسجيل بساعات معتمدة للرسالة بعد الفصل الدراسي السابع.

## المقررات الدراسية

#### القصل الدراسى الأول

#### المقررات وتوزيع الساعت المعتمدة:

الساعات المعتمدة		الكود	Course	المقرر	القصل
الإجمالي	المقرر		course	33	-
	2	PHPM618AMS	Advanced Medical statistics	احصاء طبي متقدم	القصل
	2	PHPM618ARME	Advanced Research Methodology	طرق البحث العلمي متقدمة	الدراسي اول لجميع
8	2	MEDE 637	Medical education	التعليم الطبي	دراجات
	1	ICDL600**	Advanced computer course for medical sciences	الاستخدام المتقدم للحاسوب في العلوم الطبية	الدكتوراة
	1	Lang600**	TOEFL/IELTS	اللغة	

#### درجات التقييم:

درجة الاختبار النهائي للمقرر	مدة الاختبار النهائي	المقرر
60	ساعة	احصاء طبي متقدم
60	ساعة	طرق البحث العلمي متقدمة
60	ساعة	التعليم الطبي
لشروط والمتطلبات من قبل إدارة بداية العام الدراسى	_	الاستخدام المتقدم للحاسوب في العلوم الطبية
ن جارج المسلم	اللغة	

#### المقررات الدراسية وعدد ساعاتها خلال الفصول الدراسية

الساعات المعمدة (الكود		Course	المقرر	القصل	
الإجمال	المقرر	-32-	Course	3,5	
8	8		راسية اجبارية مؤهلة والمذكورة في بند أولا من الباب الرابع للانت	مقررات در	ل الدراسي الأول
	3	ANA601AAMS	- Applied anatomy of musculoskeletal system.	- تشريح تطبيقي للجهاز الحركي	
	2	ANA601 SAC	- Surgical anatomy of chest.	- تشريح جراحي للصدر.	
	2	ANA601 SAA	- Surgical anatomy of abdomen.	- تشريح جراحي للبطن.	
	2	ANA601 SAP	- Surgical Anatomy of pelvis.	- تشريح جراحي للحوض.	ل الدراسية الثاني والثالث
22	2	ANA601 SAH	- Surgical Anatomy of head.	- تشريح جراحي للراس.	والدابع
	2	ANA601 SAN	- Surgical Anatomy of neck.	- تشريح الراس.	
	3	ANA601 AANS	- Applied anatomy of nervous system.	- تشريح هراحي للرقبة.	
	3	ANA601 AACVS	- Applied anatomy of cardiovascular system.	- تشريح تطبيقي للقلب والاوعية الدموية	
	3	ANA601 SE	- Special embryology.	- علم الأجنة (خاص).	
	8	ANA601 ARA	- Applied practical course in Advanced Radiological Anatomy.	- علم الأجنة (خاص) . مقرر تطبيقي تكاملي في التشريح لإشعاعي المتقدم.	
		Electi	ve course (only one):	مقرر اختياري (واحد فقط):	
	2	ANA604 AMB	- Advanced Molecular Biology.	البيولوجيا الجزينية المتقدمة.	لدراسي الخامس
10	2	ANA602 SH	- Special Histology.	انسجة خاص.	-
	2	ANA605 GP	- General pathology.	باثونوجي عام	-
	2	ANA602 IH	- Immunohistochemistry.	كمياء الانسجة المناعية.	
			تخصص للرسالة والتدريب العملي المتقدم المتخصد		ول الدراسية س والسابع
20			2ساعة معمدة توزع على الفصول الدراسية من الرابع الى السابع	0	الرسالة
60	_		إجمالي الساعات المعتمدة		-

#### نظام الامتحانات و توزيع الدرجات

1			درجة المقرر		
ىل الدراسي	المقرر	مدة الاختبار النهائي	أعمال فصلية (20%)	الاختبار النهائي (80%)	الدرجة الاجمالية
ىل الدراسي الأول	امتحقات المقررات الدراسية الا	جبارية المؤهلة والمذكورة في	ي بند أو لا من الباب الر	ابع للاتحة بمعرفة الدراسات	العليا بالكلية
	- تشريح تطبيقي للجهاز الحركي	ساعة وتصف	20	80	100
	- تشريح جراحي للصدر	ساعة ونصف	20	80	100
	- تشريح جراهي للبطن	ساعة ونصف	20	80	100
رل الدراسية	- تشريح جراحي للحوض	ساعة ونصف	20	80	100
ي والثالث	- تشريح جراحي للراس	ساعة ونصف	20	80	100
الرابع	- تشريح جراحي للرقبة	ساعة ونصف	20	80	100
	- تشريح تطبيقي للجهاز العصبي	ساعة ونصف	20	80	100
	<ul> <li>تشريح تطبيقي للقلب والاوعية الدموية</li> </ul>	ساعة ونصف	20	80	100
	- علم الأجنة (خاص)	ساعة ونصف	20	80	100
	- المقرر الاختياري	ساعة ونصف	20	80	100
ن الدراسي خامس	<ul> <li>المقرر التطبيقي التكاملي في التشريح الإشعاعي المتقدم (الامتحان التكاملي النهاتي يشمل:</li> <li>محطات عملي وشفوي لكل مقررات الفصول الدراسية من الثاني للرابع</li> <li>محطة عملية وشفهيه في المقرر الاختياري</li> </ul>		100 (التشريح الإشعاعي المتقدم)	400 (موزعة على المحطات الامتحانية)	500

#### طرق التدريس

- 1. المحاضرات النظرية (Lectures)
- 2. الدروس العملية (Practical sessions)
  - Case based discussion .3

#### طرق التقييم

- 1. امتحانات نظریة (Written exams (30 %) & MCQ (50 %)) في نهاية كل فصل دراسي.
- 2. التقييم المستمر للأنشطة المطلوبة خلال كل فصل دراسى (% 20) ويتم تقييمها على الأقل مرتين خلال كل فصل دراسى بواسطة 3 أساتذة WPBA.
  - 3. الامتحان العملى الشامل في نهاية الفصل الدراسي الخامس على هيئة محطات (OSPE)

#### **Program Map**

EPA 1: stain tissue with immunohistochemical stain

EPA2: stain tissue with the selected specific special stains

**EPA3:** write results of a scientific paper (thesis supervisors)

**EPA4:** conduct scientific research (thesis supervisors)

**EPA5:** Illustrate anatomy practical for undergraduate level

EPA 6: conduct seminars on anatomy-based topic for postgraduate level in seminars

with connection between basic & clinical anatomy

**EPA 7:** Create complete anatomy exams

EPA8: Involve in the quality work in department

**EPA9: Prepare anatomical specimen** 

Sem. 2		20 marks	
	Applied Anatomy of MSK (ANA601 AAMS)	EPA 9 Bony specimen/model	
	Applied Anatomy of CVS (ANA601 AACVS)	EPA 5 (M1,2,3, 4) Practical section	
	Surgical Anatomy of chest (ANA601 SAC)	EPA 5 Video demonstration	
Sem. 3			
	Surgical Anatomy of abdomen (ANA601 SAA)	EPA 6 Seminar (M1,2,3,4)	EPA 5 (M5,6) Practical section
	Surgical Anatomy of pelvis (ANA601 SAP)	EPA 1 (M1,2,3) Immunostaining	EPA 8 (M1) write course report
	Special embryology (ANA601 SE)	EPA 5 Video demonstration	•
Sem. 4			
	Surgical Anatomy of head (ANA601 SAH)	EPA 9 Bony Specimen/model	EPA 4 (M1) select idea for thesis
	Surgical Anatomy of neck (ANA601 SAN)	EPA 6 (M 5&6) Seminar  EPA 5 (M1,2,3, 4) Practical section	EPA 8 (M2) write course file
	Applied Anatomy of nervous system (ANA601 AANS)	EPA 2 (M1,2,3) Special Stain	EPA 7 (M1) create MCQ

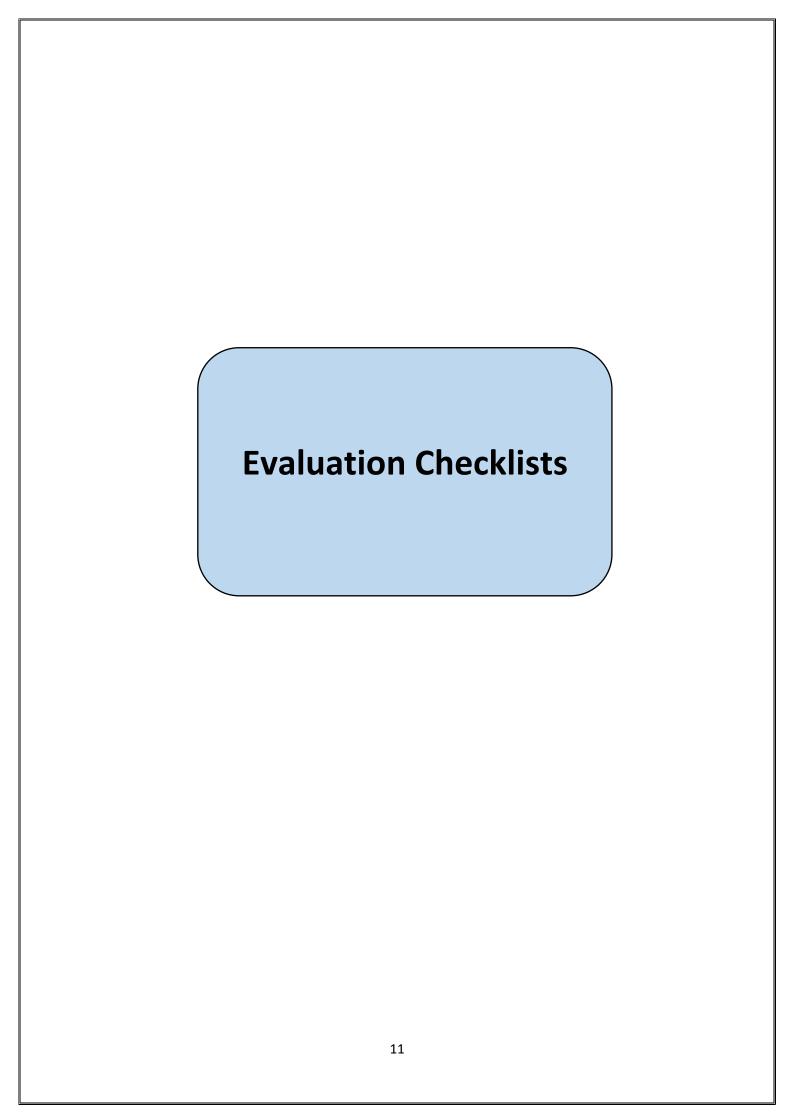
Sem. 5			
	Applied practical course of Advanced Radiological anatomy (ANA601 RA)	EPA 9 Interpretation of radiological films  EPA 6 (M 5&6) Seminar	EPA 4 (M2) Carry out experiment  EPA 5 (M5,6) Practical section  EPA 7 (M2) create SAQ
Sem 6		EPA 3 (M1,2,3) Write results of scientific paper  EPA 6 (M 5&6) Seminar	EPA 4 (M3) write paper  EPA 5 (M5,6) Practical section  EPA 7 (M3 critically evaluate exams

#### الإرشاد الاكاديمي

- ♣ يحدد القسم لكل طالب مرشدا أكاديميا ويفضل أن يكون من أعضاء هيئة التدريس من نفس التخصيص كلما أمكن.
- → و يهدف الإرشاد الأكاديمي إلى معاونة الطلاب على السير في الدراسة على أفضل وجه ممكن، والتغلب على ما يعترضهم من عقبات، مع تحقيق أقصي استفادة من الخدمات والإمكانات التي تتيحها لهم البيئة الاجتماعية عامة، والتي توفرها الكلية بصفة خاصة.

#### 🚣 مهام المرشد الاكاديمى:

- 井 تقديم النصح والإرشاد للطالب خلال فترة دراسته.
- ◄ مساعدة الطالب في اختيار المقررات الدراسية الأساسية والتكميلية اللازمة لمجال تخصصه.
   و يكون رأى المرشد الأكاديمي استشاريا وليس إلزاميا للطالب وذلك حتى نهاية دراسة الطالب للمقرر.
  - 🖊 توجيه الطالب إلى من يستطيع الرد على استفساراته.





#### **EPA1:** Immunohistochemical staining evaluation rating scale (DOPS)

Student name:	8		,
Instructor name:			
Course name/code:			
Date and Time of Observation:			
Evaluation is DONE using 3-point Likert scale; 1 (unsatisfactory	), 2 (acc	eptable	e), and
3 (target).	, , ,	•	, .
Item	1	2	3
	(0.5 m)	(1m)	(2m)
M1: Select the suitable stain			
1- Choose a primary antibody that is specific to the target antigen or protein of			
interest.			
2- Choose an appropriate detection system, such as a labeled secondary antibody, enzyme conjugate, or fluorescent probe.			
3- Consult relevant literature and staining manuals to determine the appropriate			
antigen retrieval method, blocking agents, and dilutions for the primary and			
secondary antibodies.			
M2: Follow steps of the stain	1		
1- Rehydrate the tissue sections according to established protocols.			
2- Perform antigen retrieval to unmask the target antigen (heat-induced epitope			
retrieval (HIER) or enzyme digestion).			
3- Block non-specific binding sites on the tissue sections using a suitable blocking			
agent, such as bovine serum albumin (BSA) or normal serum.			
4- Incubate the tissue sections with the primary antibody for the appropriate duration			
and at the appropriate dilution.  5- Incubate the tissue sections with the appropriate secondary antibody or detection			
system, such as a biotinylated secondary antibody or enzyme-conjugated			
streptavidin.			
6- Develop the chromogen using an appropriate substrate, such as diaminobenzidine			
(DAB), to visualize the target antigen or protein.			
7- Counterstain the tissue sections with a suitable counterstain, such as hematoxylin.			
M3: Interpret the stain results			
1- Examine the stained tissue sections under a microscope.			
2- Assess the quality of staining, such as intensity, uniformity, and specificity of			
staining.			
3- Compare the stained tissue sections with appropriate positive and negative			
controls.			
4- Interpret the results in a clear and concise manner, including any abnormalities or			
diagnostic features.			
5- Interpret the staining results in the context of the research question.			
6- Determine the significance of the staining results, such as whether they support a			
diagnosis, provide prognostic information, or indicate a therapeutic target.  Overall performance (8 marks)			
Total 40 (/2=20)			
Comments & feedback			
Comments & recuback			
	•••••••		• • • • • • • • • • • • • • • • • • • •
Signatures			



Student name:



Instructor name:			
Course name:			
Date and Time of Observation:			
Evaluation is DONE using 3-point Likert scale; 1 (unsatisfactory), 2 (acceptable), and 3 (t	arget).		
Item	1	2	3
	(0.5 m)	(1m)	(2m)
M1: Select the suitable stain			
1- Choose the suitable stain to be used.			
2- Consult relevant literature and staining manuals to determine the appropriate protocol to be			
used.			
M2: Follow steps of the stain			
1- Rehydrate the tissue sections according to established protocols.			
2- Staining reagents prepared according to the standard protocol.			
3- The staining time and temperature appropriate for the specific stain being used.			
3- The stanning time and temperature appropriate for the specific stant being used.			
4- The differentiation step carried out for the correct duration.			
5- The counterstain applied evenly and for the correct duration.			
6- The tissue sections properly dehydrated and cleared after staining.			
7- The appropriate mounting media used to preserve the stained sections.			
The office of the second secon			
M3: Interpret the stain results			
1- Examine the stained tissue sections under a microscope.			
2- Assess the quality of staining, such as intensity, uniformity, and specificity of staining.			
3- Interpret the results in a clear and concise manner, including any abnormalities or			
diagnostic features.			
4- Interpret the staining results in the context of the research question.			
Overall performance (2 marks)			
Total 20			
Comments & feedback			
		• • • • • • • • • • • • • • • • • • • •	
Signatures			



Observer name:

#### EPA 4: Scientific research conduction Evaluation rating scale

 In	structor name:			
Co	ourse name/code:			
D	ate and Time of Observation:			
	valuation is DONE using 3-point Likert scale; Evaluation is DONE kert scale; 1 (unsatisfactory), 2 (acceptable), and 3 (Target).	using	g 3-po	int
	Item	1	2	3
	M1: Construct research questions			
1.	Clearly define the research topic or problem you want to investigate.			
	Ensure the research questions are focused and specific, rather than broad or vague.			
3.	Formulate questions that can be answered through data collection and analysis.			
	M2: Write protocol			
1.	Include the title of the research project, List the names and affiliations of the research team.			
2.	Provide a brief overview of the research topic and its importance.			
	Clearly state the primary and secondary objectives of the research.			
	Describe the overall study design.			
5.	Outline the data collection & analysis tools and techniques			
	Include a list of all the references cited in the research protocol.			
	M3: Retrieve literature		ı	
1.	Determine the appropriate scope of the literature search.			
	Execute the search strategy in the selected databases and sources.			
	Use citation management software.			
	Explore related articles, cited references, and similar publications to identify additional relevant literature.			
5.	Document any challenges or limitations encountered during the literature search process.			
6.	Periodically repeat the search to identify any new or updated literature relevant to the research topic.			
	Total			
<b>C</b> (	omments & feedback Signatu			



# EPA 5: Illustrate anatomy seminars (practical section) for undergraduate level Evaluation rating scale (Direct observation)

Student name:			
Instructor name:			
Course name/code:			
Date and Time of Observation:			
Evaluation is DONE using 3-point Likert scale; 1 (unsatisfactory), 2 (acceptable), and 3 (to	arget).		
Item	1 (0.5 m)	2 (1 m)	3 (2m)
M1: Construct appropriate ILOs			, ,
1- Share the ILOs with audience at the beginning of the seminar to set expectations and guide learning.			
M2: Construct seminar depending on basic anatomical fac	ets		
1- Start with an introduction that provides context and relevance to the topic.			
2- Identify the key anatomical structures and their functions that will be covered in the seminar.			
3- Organize the section in a logical and sequential manner, following the natural flow of the anatomical structures being discussed.			
4- Summarize the key points at the end of the seminar to reinforce learning objectives.			
M3: Design PowerPoint			
1- Choose a visually appealing and appropriate template/theme.			
2- Utilize visuals such as images, charts, and graphs to enhance understanding and			
engagement.			
3- Add transitions and animations sparingly to enhance the flow of your presentation.			
M4: Conduct the seminar		1	
1- Incorporate interactive activities or questions to encourage active learning and retention.			
2- Clearly communicate the structure and flow of the lecture to guide audience' understanding.			
3- Use clear and concise language, speaking at an appropriate pace and volume.			
4- Maintain eye contact with the audience and engage them through gestures, body language, and facial expressions.			
5- Encourage active participation by asking questions, allowing time for audience			
responses, and facilitating discussions.  6- Address any questions or concerns raised by audience during the seminar.			
7- End the seminar with a brief recap and encourage audience to seek further resources or			
ask questions if needed.			
M5: Connect the basic anatomy with the clinical application			
M6: Engage in fruitful discussion with audience			
Overall presentation and performance (6 marks)			
Total 40 (x1/2)=20			
Comments & feedback			
	 Signature	· · · · · · · · · · · · · · · · · · ·	
	Signatule	,	



# EPA 6: conduct seminars on anatomy-based topic for postgraduate level Evaluation rating scale (Direct observation)

(211000 00001 (401011)	
Student name:	
Instructor name:	
Course name/code:	
Date and Time of Observation:	
Evaluation is DONE using 3-point Likert scale: 1 (unsatisfactory), 2 (acceptable), as	nd 3 (target).

Evaluation is DONE using 3-point Likert scale; 1 (unsatisfactory), 2 (acceptable), and 3 (t	<del>,                                     </del>		- 2
Item	(0.5 m)	2 (1 m)	3 (2m)
M1: Construct appropriate ILOs			
1- Write clear and concise statements that describe what audience will be able to do or			
know after completing the seminar.			
2-Use action verbs to describe the level of learning expected.			
3- Share the ILOs with audience at the beginning of the seminar to set expectations and			
guide learning.			
M2: Construct seminar depending on basic anatomical fac	cts		
1- Start with an introduction that provides context and relevance to the topic.			
2- Identify the key anatomical structures and their functions that will be covered in the seminar.			
3- Organize the seminar in a logical and sequential manner, following the natural flow of the anatomical structures being discussed.			
4- Summarize the key points at the end of the seminar to reinforce learning objectives.			
5- Provide additional resources or references for further reading or exploration.			
M3: Design PowerPoint		l	
1- Choose a visually appealing and appropriate template/theme.			
2- Use consistent fonts, colors, and formatting throughout the slides.			
3- Keep the text on each slide concise and easy to read.			
4- Utilize visuals such as images, charts, and graphs to enhance understanding and			
engagement.			
5- Limit the number of slides and avoid overcrowding them with too much content.			
6- Add transitions and animations sparingly to enhance the flow of your presentation.			
M4: Conduct the seminar			
1- Incorporate interactive activities or questions to encourage active learning and retention.			
2- Clearly communicate the structure and flow of the lecture to guide audience'			
understanding.			
3- Use clear and concise language, speaking at an appropriate pace and volume.			
4- Maintain eye contact with the audience and engage them through gestures, body			
language, and facial expressions.			
5- Encourage active participation by asking questions, allowing time for audience			
responses, and facilitating discussions.  6- Address any questions or concerns raised by audience during the seminar.			
7- End the seminar with a brief recap and encourage audience to seek further resources or ask questions if needed.			
M5: Connect the basic anatomy with the clinical application			
M6: Engage in fruitful discussion with audience			
Overall presentation and performance (4 marks)			
		T	
Total 50 ( $x2/5$ )=20			

6: Engage in fruitful discussion with audience		
verall presentation and performance (4 marks)		
Total 50 (x2/5)=20	,	
Comments & feedback		
	Sign	nature



# EPA 7: Create complete anatomy exams MCQ preparation rating scale



Observer name:			
Instructor name:			
Course name/ code:			
Date and Time of Observation:			
Topic observed:			
evaluation is using 3-point Likert scale; Proficient 3, sati	sfactory 2	, Unsatis	factory 1
Item	1	2	3
	(0.5m)	(1m)	(2m)
1. Blueprint is prepared with the exam			
2. Student stick to the blueprint			
3. Exam is provided with key			
4. Scientific contents are true			
5. Questions pass the cover test			
6. At least 1/3 of the exam is evaluating high cognitive level			
7. Questions are not negatively phrased			
8. Only one true answer is present (or if more is indicated)			
9. No (none of the above – all of the above) in the options			
Overall performance (2 marks)			
Total (20/2=10 marks)			
Comments & feedback			
	Si	gnature	• • • • • • • • • • • • • • • • • • • •



# **EPA 7:** Create complete anatomy exams



# Critique exams rating scale

Observer name:			_
Instructor name:			
Course name/ code:			
Date and Time of Observation:			_
Topic observed:			
Evaluation is using 3-point Likert scale; Proficient 3, sati	sfactory 2	, Unsatisf	actory 1
Item	1	2	3
	(0.5m)	(1m)	(2m)
1. Student comment on the exam Blueprint			
2. Student comment on the key			
3. Student picks the wrong scientific data			
4. Student picks all the mistakes in the essay exam			
5. Student corrects all the mistakes in the essay exam			
6. Student picks all the mistakes in the MCQ exam			
7. Student corrects all the mistakes in the MCQ exam			
8. Students comment on the percentage of the high cognitive questions			
9. Students correct questions to reach percentage of 30% high cognitive level questions			
Overall performance (2 marks)			
Total (20/2=10 marks)			
Comments & feedback			
	Signature	···········	•••••



# EPA 7: Create complete anatomy exams SAQ preparation checklist



Observer name:			-
Instructor name:			
Course name:			
Date and Time of Observation:			_
Topic observed:			
evaluation is using 3-point Likert scale.			
<ul><li>Proficient 3</li><li>satisfactory 2</li><li>Unsatisfactory 1</li></ul>			
Item	1	2	3
Blueprint is prepared with the exam			
Student stick to the blueprint			
Exam is provided with key			
Student uses clear action verb at the beginning of the questions			
Questions clearly indicating the needed answer			
At least 1/3 of the exam is evaluating high cognitive			
level			
total			
Comments & feedback			



# **EPA8:** Involve in the quality work in department Course report construction rating scale



Student name: Instructor name: Course name/code: Date of evaluation: Evaluation is done using 3-point Likert scale; 1 (unsatisfactory), 2 (satisfactory), and 3 (proficient). Item 1 2 3 1- Course report is properly outlined. 2- Basic course information is properly stated. 3- Statistical analysis of students' exam results (before & after resit) is included. 4- Percentage of taught topics is mentioned. 5- Teaching and assessment tools are clearly stated. 6- Members examination of committee enlisted. 7- Progress on actions identified in the previous year is stated. 8- Action plan for the next academic year is prepared adequately. Pass/fail Total Comments & feedback

Signature



#### **EPA 9: Anatomical Model Preparation rating scale**

tudent name:			
nstructor name:			
Course name/code:			
Date of evaluation:			
Evaluation is done using 3-point Likert scale; 1 (unsate (proficient).	tisfactory	y), 2 (sat	isfactory
	1	2	3
Item	(0.5m)	(1m)	(2m)
1- The materials used for modelling is suitable for its target.			
2- The model mimics the true Anatomical specimen.			
3- The relationship between the model parts is properly designed.			
4- The anatomical features are described in details.			
5- Specimen is well presented.			
6- Specimen key is well prepared.			
7- The model is creative.			
Overall presentation and performance (6 marks)			
Total (20/2=10 marks)			

Signature



#### **EPA 9: Anatomical Drawing rating scale**

tory), 2	(satisfa	ctory),
1	2	3
0.5m)	(1m)	(2m)
• • • • • • • •	• • • • • • • • •	
t	ory), 2	ory), 2 (satisface)  1 2

cale (Dire	ct Obse	rvation)	i
atisfactory	y), 2 (sat	isfactory	y),
1	2	3	
(0.5m)	(1m)	(2m)	
			-
			=
			=
-			_
			· • •
		• • • • • • • • • • •	
			,
	atisfactory	atisfactory), 2 (sat	

# House and selection of the selection of

#### **EPA9: Prepare anatomical specimen**

#### Radiological Film Interpretation observation tool (mini CEA

(proficient).	010197, 2	(Saustac)	tory), a
Item	1 (0.5m)	2 (1m)	3 (2m)
1- The type of the film is identified.			
2- The view of the film is mentioned.			
3- The Anatomical region is accurately identified.			
4- The Anatomical features are properly identified.			
5- The bones are properly labelled.			
6- The interpretation is focused.			
7- The pathology or congenital anomaly is mentioned (If present).			
8- The clinical judgment is grounded on basic knowledge.			
Over all performance (4 marks)			
Total (20/2=10 marks)			



#### **EPA 9: Video Demonstration rating scale (Direct Observation)**

Student name:			_
Instructors name:			
Course name/code:			
Date of evaluation:			_
Evaluation is done using 3-point Likert scale; 1 (unsatis: 3 (proficient).	factory), 2	2 (satisfa	 .ctory), an
Item	1 (0.5m)	2 (1m)	3 (2m)
1- Define the objective of the video.	(0.5111)	(1111)	(2111)
2- Define the audience clearly.			
3- The voice is clear.			
4- The video duration is suitable to clearly reach the target.			
5- The content is suitable.			
6- Language is clear.			
7- Attract the audience in a successful manner.			
8- Show the specimen in a proper way.			
Overall performance and presentation skills (4 marks)			
Total 20			
Comments & feedback			
	Si	gnatures	•••••