



خطة المساق الدراسي
COURSE PLAN

FIRST: COURSE IDENTIFICATION		أولاً: تعريف المساق	
College & Department		الكلية والقسم	
College	Medicine		الكلية
Department	General and Special Surgery		القسم
Academic Year	4 th		السنة الدراسية
Academic Semester	1 st and 2 nd		الفصل الدراسي
Course details		تفاصيل المساق	
Course Title	Clinical Neurosciences		اسم المساق
Course Code	MD 444		رمز المساق
Course Type	Clinical		نوع المساق
Credit Hours	3		الساعات المعتمدة
Pre-requisite			المتطلب السابق
		ألية تدريس المساق <input checked="" type="checkbox"/> وجاهي <input type="checkbox"/> الكتروني كامل <input type="checkbox"/> مدمج	
Teaching Method	<input checked="" type="checkbox"/> Face-to-Face <input type="checkbox"/> Online <input type="checkbox"/> Blended		
Instructor Contact Information		المدرس	
Name	Waleed dabbas Bilal Hashim Qais samara Mustafa Alnadi Sadiq alghzawi		اسم المدرس
Office No.	C402		رقم المكتب



Tel (Ext)				الرقم الداخلي	
E-mail	Waleed.dabbas@bau.edu.jo			البريد الالكتروني	
Office Hours	12-2 pm			الساعات المكتبية	
وقت المحاضرة Class Times	وقت البدء Start Time	وقت النهاية End Time	اليوم Day	المبنى Building	رقم القاعة Room No.
	8:30AM	12:30 PM	Sunday - Thursday	Faculty of Medicine	LC204
Course Materials				مصادر المساق	
Textbook				الكتاب المقرر	
1-Handbook of Neurosurgery by Mark S. Greenberg					
2-Macleod's clinical examination					
3-Continum magazine of American academy of neurology					
Course References, Readings and Learning Resources				المراجع والقراءات ومصادر تعلم المساق:	
4. Up to date					
5. Neurosurgical journals review articles.					
6. Neurological journals review articles.					
SECOND: COURSE OVERVIEW/DESCRIPTION				ثانياً: معلومات المساق	



Course description		وصف المساق
<p>These three weeks course is given for the 4th year medical students. It is an integrated neurology/ neurosurgery course that covers common neurological and neurosurgical problems.</p> <p>The students will be divided into four subgroups; the first week all the four groups' students will attend a daily neurological and neurosurgical lecture.</p> <p>In the second- and third weeks all students will participate in a daily bedside clinical round to learn inpatient neurological and neurosurgical care, attend outpatient clinics and the surgical theatres.</p>		
Course Objectives		أهداف المساق
By the end of this course, students should be able to		مع نهاية هذا المساق يجب أن يكون الطالب قادراً على
CO1.	To give the student a firm background in the fundamentals of neurological history and examination.	الهدف 1:



CO2.	To give the student the fundamentals of the diagnostic work-up of neurological and neurosurgical patients.	الهدف 2:
CO3.	To give the student a solid foundation in the pathophysiology and therapeutic options of common neurological and neurosurgical diseases.	الهدف 3:
CO4.	Expose the student to neurological & neurosurgical care in areas of head and spine injuries, congenital anomalies, brain tumors, spinal diseases, stroke, demyelinating diseases, and neuromuscular diseases.	الهدف 4:
CO5.		الهدف 5:
CO6.		الهدف 6:
CO7.		الهدف 7:
CO8.		الهدف 8:
Program Intended Learning Outcomes (PILO):		
مخرجات التعلم المستهدفة للبرنامج		
Knowledge & understanding, Professional Skills, and	PILO1	Show understanding of various human body systems in terms of structure, function, regulation, and normal anatomical, biochemical, cellular, genetic, and molecular mechanisms in human body and their disruptions during disease status.
		م ب:1
		المعرفة والفهم



	PILO2	Collect history and perform physical examination and apply clinical knowledge and skills in disease diagnosis and management through rational planning in requesting necessary, updated, and accurate diagnostic procedures.	م ب:2	المهارات
	PILO3	Demonstrate and apply sufficient knowledge of drugs and pharmacotherapy concepts for rational drug use in clinical, therapeutic, and preventive settings.	م ب:3	
	PILO4	Understand and apply the concepts and application of community and preventive settings.	م ب:4	الكفايات
	PILO5	Build an efficient and healthy doctor-patient and doctor-community relationship.	م ب:5	
	PILO6	Recognize and apply the basic concepts and principles in scientific research ethics and the practice of evidence-based medicine.	م ب:6	
	PILO67	Appreciate and apply the principles of medical and sustainable professional development.	م ب:7	



	PILO8	Respect and adhere to ethical principles in all aspects of education, training, and work.	م ب :8	
Course Intended Learning Outcomes (CILO)		مخرجات التعلم المستهدفة للمساق		
Successful completion of the course should lead to the following outcomes:		في نهاية المساق بنجاح يجب أن يكتسب الطالب المخرجات التالية:		
Knowledge & understanding	CILO1	Demonstrate the ability to conduct a focused medical history and targeted physical examination appropriate to the patient's chief complaint(s) and the history of the present illness(es) in neurology and neurosurgery.	م م 1	المعرفة والفهم
	CILO2	Using the patient's history, physical exam, laboratory, and imaging results to construct appropriate differential diagnoses.	م م 2	
	CILO3	Choosing and understanding the best surgical option for the most common neurosurgical problems.	م م 3	
			م م 4	
Professional Skills	CILO4	Demonstrate effective communication skills with patients, physicians, and other health team members	م م 5	المهارات



	CILO5	Demonstrate the ability to diagnose and choosing the best medical or surgical treatment for neurological and neurosurgical cases.	م م 6:	
	CILO6	Demonstrate the ability to write a daily progress note in the hospital.	م م 7:	
			م م 8:	
Competences	CILO7	Interpretation of brain and spine MRI, CT scan as well as the x-ray of spine.	م م 9:	المعارف
	CILO8	Interpretation of CSF analysis to reach a professional diagnosis	م م 10:	
	CILO11		م م 11:	
	CILO12		م م 12:	



<p style="text-align: center;">CILO/PILO</p>	<p>Show understanding of various human body systems in terms of structure, function, regulation, and normal</p>	<p>Collect history and perform physical examination and apply clinical knowledge and skills in disease diagnosis</p>	<p>Demonstrate and apply sufficient knowledge of drugs and pharmacotherapy concepts for rational drug use in</p>	<p>Understanding and apply the concepts and application of community and preventive settings.</p>	<p>Build an efficient and healthy doctor-patient and doctor-community relationship.</p>	<p>Recognize and apply the basic concepts and principles in scientific research ethics and the practice of</p>	<p>Appreciate and apply the principles of medical and sustainable professional development.</p>	<p>Respect and adhere to ethical principles in all aspects of education, training, and work.</p>
<p>Demonstrate the ability to conduct a focused medical history and targeted physical examination appropriate to the patient's chief complaint(s) and the history of the present illness(es) in neurology and neurosurgery.</p>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>



Using the patient's history, physical exam, laboratory, and imaging results to construct appropriate differential diagnoses.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Choosing and understanding the best surgical option for the most common neurosurgical problems.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Demonstrate effective communication skills with patients, physicians, and other health team members	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Demonstrate the ability to diagnose and choosing the best medical or surgical treatment for neurological and neurosurgical cases.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Demonstrate the ability to write a daily progress note in the hospital.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Interpretation of brain and spine MRI, CT scan as well as the x-ray of spine.

Interpretation of CSF analysis to reach a professional diagnosis.



CO/PO	To graduate highly qualified doctors with valuable skills and information who are able to provide the required medical care and perform their profession effectively.	Graduating physicians with Professional and ethical commitment	Graduating physicians capable of dealing with societal health problems and committed to maintaining the health of community members through the practice of	Graduating physicians and doctors capable of conducting research to improve medical conduct	Graduating physicians with effective communication skills and the ability for teamwork and leadership.	Graduating physicians committed to the principles of quality, patient safety, and infection control.
To give the student a firm background in the fundamentals of neurological history and examination.	☒	☐	☒	☐	☒	☒



To give the student the fundamentals of the diagnostic work-up of neurological and neurosurgical patients.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
To give the student a solid foundation in the pathophysiology and therapeutic options of common neurological and neurosurgical diseases.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Expose the student to neurological & neurosurgical care in areas of head and spine injuries, congenital anomalies, brain tumors, spinal diseases, stroke, demyelinating diseases, and neuromuscular diseases.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Al Balqa Applied University
Development and Quality Assurance center
Learning and Teaching Technology Center
Document Code:
Date of Issued:



جامعة البلقاء التطبيقية
مركز التطوير وضمان الجودة
مركز تكنولوجيا التعلم والتعليم
رمز الوثيقة:
تاريخ الاصدار:



Program intended learning outcomes (PILOs) / Program objective(PO1s)	To graduate highly qualified doctors with valuable skills and information who are able to provide the required medical care and perform their profession effectively and competitively in society.	Graduating physicians with Professional and ethical commitment	Graduating physicians capable of dealing with societal health problems and committed to maintaining the health of community members through the practice of preventive medicine and health awareness	Graduating physicians and doctors capable of conducting research to improve medical conduct	Graduating physicians with effective communication skills and the ability for teamwork and leadership.	Graduating physicians committed to the principles of quality, patient safety and infection control.
1. Show understanding of various human body systems in terms of structure, function, and regulation, and normal anatomical, biochemical, cellular, genetic, and molecular mechanisms in human body and their disruptions during disease status. (Knowledge)	*	*		*		
2. Collect history and perform physical examination and apply clinical knowledge and skills in disease diagnosis and management through rational planning in requesting necessary, updated, and accurate diagnostic procedures (Skills)	*	*				
3. Demonstrate and apply sufficient knowledge of drugs and pharmacotherapy concepts for rational drug use in clinical, therapeutic, and preventive settings.	*		*			
4. Understand and apply the concepts and application of community and preventive settings.	*		*			*



5. Build an efficient and healthy doctor-patient and doctor-community relationship. (Skills)	*	*	*		*	*
6. Recognize and apply the basic concepts and principles in scientific research, emphasizing research ethics and the practice of evidence-based medicine. (Competencies)	*	*		*		
7. Appreciate and apply the principles of medical and sustainable professional development. (Competencies)	*	*	*	*	*	*
8. Respect and adhere to ethical principles in all aspects of education, training, and work (Competencies)	*	*		*	*	*

Topic Outline/Schedule (Syllabus)

مخطط المساق (الموضوعات)

الأسبوع Week	مواضيع المساق / الفعاليات Course Topics/Events	القراءات (المراجع) Readings (Reference) رقم	رمز مخرجات المساق CLO	رمز مخرجات البرنامج PILO	أنشطة التدريس والتعلم Teaching & Learning Activity	العلامة Mark	الوقت /الموعد Duration/ Deadlines
1.	Head and spine injury, Degenerative spine disorders, CNS congenital anomalies, Neurosurgical cerebrovascular disorders, CNS tumors.	1,4,5	1,2,3,5	1,2,4,6	Seminars/power points	5 MARKS EACH	1 HOUR EACH



1.	Medical neurology, Cerebrovascular disorders, Movement disorders, Multiple sclerosis, Epilepsy, Dementia, Infective disorders of CNS, Diseases of skeletal muscles, Headache, Peripheral Nervous System.	2.3.4.6	1,2,5	1,3,6,7	Seminars/power points	5 MARKS EACH	1 HOUR EACH
2-3.	Clinical neurology and Neurosurgery Rounds	2	1,2,3,4,6,7	2,4,5,7	Inpatient clinical rounds, Outpatient clinic, OR theatre		4 HOURS DAILY
2.	التقييم التجميحي • Final exam (Summative Assessment)	15			الامتحان النهائي (التقييم التجميحي) Summative Assessment	35	

Week	May use the Week number more than once	من الممكن استخدام رقم الأسبوع أكثر من مرة	الأسبوع
Course Topics/Events	The topic that is the focus of this part of the class in subjects' format	المحتوى التعليمي المعطى في المحاضرة على شكل مواضيع	مواضيع المساق / الفعاليات
CILO	The learning objective of this specific topic; what you want the students to achieve.	الهدف التعليمي لهذا الموضوع المحدد؛ ما الذي تريد أن يحققه الطلاب.	مخرجات التعلم للمحاضرة
Teaching & Learning Activity	Power point material, Videos, White board, overhead projector, handout, pc projector,	وسائل التعليم المستخدمة، مادة عرض مصورة، مقاطع مصورة، مجسمات السبورة البيضاء، جهاز عرض علوي، نشرة، جهاز عرض	أنشطة التدريس والتعلم



	written assignment, flip chart, objects used to illustrate something etc.	كمبيوتر ، مهمة كتابية ، لوح ورقي ، أشياء مستخدمة لتوضيح شيء ما وما إلى ذلك.
Time	Duration of this part of the class.	مدة هذا الجزء النشاط من المحاضرة.
Mark	Mark weight for each topic as a part of total (100)	علامة كل مخرج وهي جزء من العلامة الكلية (100)



ASSESSMENT TOOLS		أساليب التقييم		
Write assessment tools that will be used to test students' ability to understand the course material and gain the skills and competencies stated in learning outcomes		أكتب أساليب التقييم التي سيتم استخدامها لتقييم قدرة الطلبة على استيعاب مواد المساق واكتساب المهارات والكفايات المنصوص عليها في مخرجات التعلم		
وسيلة التقييم ASSESSMENT TOOLS	النوع (تكويني أو تجميعي) Type (Informative and Summative)	رمز مخرجات المساق المستهدفة CILO	العلامة Grade	النسبة % Percentage
<input type="checkbox"/> المشاركة (Participation)	Informative		15	15%
<input type="checkbox"/> تقرير (Report)				
<input type="checkbox"/> المقالات المختصرة (Essays)				
<input type="checkbox"/> واجبات (assignments)				
<input type="checkbox"/> الاختبارات الشفوية (Oral exams)				
<input type="checkbox"/> دراسة الحالة (Case study exams)				
<input type="checkbox"/> امتحانات قصيرة (Quizzes)				
<input type="checkbox"/> التجارب العملية (Experiments)				
<input type="checkbox"/> مشاريع (Project)				
<input type="checkbox"/> زيارات ميدانية (Field Trip)				
<input type="checkbox"/> أخرى (يرجى التحديد) Other (specify)				
<input type="checkbox"/> امتحان منتصف الفصل (Mid Exam)	Summative		35	35%
<input type="checkbox"/> الامتحان النهائي (Final Exam)	Summative		50	50%
المجموع (TOTAL MARKS)	100		100	100%

Informative	A set of formal and informal assessment procedures that teachers conduct during the learning process in order to modify teaching and learning activities to improve student achievement.	مجموعة من إجراءات التقييم الرسمية وغير الرسمية التي يجريها المعلمون أثناء عملية التعلم من أجل تعديل أنشطة التعليم والتعلم لتحسين تحصيل الطلاب.	التكويني
Summative	A set of formal assessment procedures that teachers conduct after the learning process in order to measure student achievement.	مجموعة من إجراءات التقييم الرسمية التي يجريها المعلمون بعد عملية التعلم من أجل قياس تحصيل الطلاب.	التجميعي
Assessment Tools	Technique or method of evaluating information to determine how much a Student knows and whether this knowledge aligns with the intended learning outcomes of a theory or framework.	تقنية أو طريقة لتقييم المعلومات لتحديد مدى معرفة الطالب وما إذا كانت هذه المعرفة تتوافق مع نتائج التعلم لنظرية أو إطار عمل.	وسيلة التقييم



THIRD: COURSE POLICIES AND INSTRUCTIONS

ثالثاً: التعليمات والإرشادات

Attendance rules

الحضور والمواظبة

Attendance and participation are critical, and the regular university norms will apply. A student is not permitted to be absent for more than 15% of the total number of credit hours given to any course. Each class's attendance will be tracked. A 10% absence will result in a first written notice. If a student misses 15% of the class, the course is dropped, and the student is not entitled to sit for the final exam. If a student has any special circumstances (medical or personal), he or she is advised to discuss this with the instructor, and documented evidence will be requested to remove any absences from his or her attendance records.

يعتبر حضور الطلبة للمحاضرات ومشاركتهم بها في غاية الأهمية، وسيتم تطبيق القواعد المعمول بها في الجامعة بهذا الخصوص. يتم تسجيل حضور الطلبة في كل محاضرة. وصول نسبة غياب الطالب إلى 10% ستسبب في تلقيه إنذاراً أولياً خطياً. في حال وصول نسبة الغيابات إلى 15%، يتم حرمان الطالب من المساق ولن يسمح للطالب بالتقدم للامتحان النهائي في المساق. في حال تعرض الطالب إلى أي ظروف قاهرة (مرض أو ظروف شخصية)، يجدر بالطالب التواصل مع المدرس ومناقشة هذا الظرف وإظهار دليل خطي يبرر الظرف ليتم إلغاء الغياب من سجل الغياب.

GRADING SYSTEM

نظام التقديرات

التقدير Grade	النقاط Points	المدى Range
A	أ	
A-	أ-	
B+	ب+	
B	ب	
B-	ب-	
C+	ج+	
C	ج	
C-	ج-	
D+	د+	
D	د	
D-	د-	
F	ف	



Policies and instructions

السياسات والإرشادات

- Students must read and follow the internal bylaws of BAU in relation to student conduct bylaws.
- Students with special needs are highly recommended to register their cases with a valid doctor's report in the student affairs department.
- Students with special needs shall be subject to special care in coordination with the head of department as per internationally recognized and benchmarked considerations and services.
- The student must seek permission before making any interventions on the subject of the lecture.
- The student must listen to and respect the opinions of others.
- The student should not obstruct the course of the lecture.
- Students should not hesitate to ask questions to the instructor.
- Students should not use their mobile phones during the lecture.
- Students are strongly encouraged to contact their instructor if they have course-related questions during office hours.
- Students are recommended to contact their instructor using the LMS.
- Cheating and Plagiarism are prohibited.

- يجب على الطالب أن يقوم بقراءة واتباع اللوائح الداخلية الخاصة بجامعة البلقاء التطبيقية المتعلقة بلوائح سلوك الطلبة.
- ينصح الطلبة من ذوي الاحتياجات الخاصة أن يقوموا بتسجيل حالاتهم لدى شؤون الطلبة من خلال تقرير طبي حسب الأصول وساري المفعول.
- يخضع الطلبة من ذوي الاحتياجات الخاصة إلى رعاية خاصة وذلك بالتنسيق مع رئيس القسم وفقاً للمعايير الخاصة بذلك والمعترف بها دولياً.
- على الطالب الاستئذان قبل القيام بأي مداخلات على موضوع المحاضرة.
- على الطالب الاستماع واحترام الرأي الآخر.
- على الطالب عدم إعاقة سير المحاضرة.
- على الطلاب عدم التردد في طرح الأسئلة على مدرس المادة والتواصل مع المدرس خلال الساعات المكتبية او من خلال نظام التعليم الإلكتروني.
- على الطلاب عدم استخدام الهاتف النقال أثناء المحاضرة.
- على الطلاب عدم التردد في التواصل مع المدرس خلال الساعات المكتبية او من خلال نظام التعليم الإلكتروني.
- غير مسموح الغش والانتحال على الاطلاق.

COURSE COORDINATOR

منسق المساق

منسق المساق Course Coordinator:	Waleed Fayez Dabbas	رئيس القسم Department Head:	
رقم قرار القسم Department Decision		تاريخ القرار: Date of Decision:	
التوقيع Signature:		التوقيع Signature:	
التاريخ Date:	8/3/2023	التاريخ Date::	