

# Republic of Yemen

## Ministry of Higher Education & Scientific Research

### 21 SEPTEMBER UNIVERSITY for MEDICALS & APPLIED SCIENCES



## Faculty of Medicine

### Bachelor Program of Medicine and Surgery

## Course Specification of

### Neurosurgery

## Course Code. (A21P514)

2023



T4: This Template is Developed and Approved by CAQA-Yemen, 2023

Prepared by:	Reviewed by:	Head of department	Quality Unit:	Dean of Medicine Faculty	Center of Development and Quality Assurance Dean
Dr. Mohammed Shamualdeen	Prof. Mojahed measer	Dr. Mohammed Shamualdeen	Dr. Fadhl Shujaa Al-deen	Dr. Salwa Al-Ghomeri	

## I. General Information:

1.	Course Title:	Neurosurgery				
2.	Course Code:	A21P514				
3.	Credit Hours:	Credit Hours	Theory Contact Hours		Practical Contact Hours	
			Lecture	Tutorial/ Seminar	Lab	Clinical
		3	2	--		3
4.	Level/ Semester at which this Course is offered:	5 <sup>th</sup> Level / 1 <sup>st</sup> Semester				
5.	Pre –Requisite (if any):	All Systems, all Clinical Subjects				
6.	Co –Requisite (if any):	None				
7.	Program (s) in which the Course is Offered:	Bachelor of Medicine and surgery				
8.	Language of Teaching the Course:	English				
9.	Location of Teaching the Course:	Faculty of Medicine				
10.	Prepared by:	Dr. Mohammed Shamualdeen				
11.	Date and Number of Approval by Council:	2023				

## II. Course Description:

The course is the fourth course in surgery. Students will have advanced clinical training with emphasis on life threatening conditions and real-life scenarios. Students are expected to choose relevant investigations, formulate proper management plans and modify their plans according to the outcomes. Theoretical knowledge will cover neurosurgery and trauma.

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III. Course Intended Learning Outcomes (CILOs) : Upon successful completion of the course, students will be able to:		Referenced PILOs		
<b>A. Knowledge and Understanding:</b>		<b>I, P or M/A</b>		
a1	Describe the normal structure and function of the human body at molecular, cellular and biochemical, in relation to general surgical disease.	I	A1	Describe the general and basic sciences related to human body structure and functions with emphasis on normal and abnormal conditions.
a2	Identify the etiology, pathogenesis, clinical manifestations, diagnosis differential diagnosis and complications of common surgical disease and important surgical emergencies.	A	A3	Explain the pathological and pathogenesis changes in various diseases, and their etiological triggers including genetic, developmental, infectious, metabolic, endocrinal, autoimmune, neoplastic, traumatic, degenerative and occupational factors.
<b>B. Intellectual Skills:</b>				
b1	Distinguish between physiological and pathological performance of body cells.	I	B1	Compare between normal and abnormal conditions and predict the appropriate treatment or intervention.
b2	Analyze data obtained from medical history, physical examination and para-clinical investigations to reach a final diagnosis and plan the management of common surgical disease and important surgical emergencies.	P	B2	Analyze and interpret the finding from history, clinical examination and investigations to propose a diagnosis and develop a shared management plan for common acute, chronic and urgent physical and mental health presentations.
<b>C. Professional and Practical Skills:</b>				
c1	Perform patient-centered history taking,	P	C1	Perform complete clinical

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	physical examination and investigations for patient with common surgical conditions and emergency situations.			examination and precise investigations to reach the final diagnosis.
c2	Prescribe appropriate, safe and affordable drugs for initial treatment of patients with surgical conditions.	A	C2	Prescribe appropriate drugs taking in mind the benefits, side effects, interactions, safety and availability.
c3	Apply common laboratory procedures, investigations, and basic interventions that are necessary in relevant surgical conditions.	A	C3	Carry out routine medical procedure and demonstrate the ability of using common medical tools required for diagnosis and management with highly qualified competency.
<b>D. Transferable Skills:</b>				
d1	Use the information technology and internet resources efficiently for self-learning and gaining up-to-date information in the areas of interest.	P	D1	Communicate with professionals, patients, their families and the community through verbal, written and other non-verbal means.
d2	Act independently or collaboratively as a member of teamwork and communicate effectively with others.	A	D2	Work individually or in a team and develop lifelong learning using up to date technology that help in understanding the diseases and its control and prevention.
<b>I= Introduced, P=Practiced or M/A= Mastered/Advanced</b>				

**(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods:**

Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
a1 Describe the normal structure	▪ Interactive lectures	▪ Quizzes

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	and function of the human body at molecular, cellular and biochemical, in relation to general surgical disease.	<ul style="list-style-type: none"> <li>Discussion</li> <li>Self-learning</li> </ul>	<ul style="list-style-type: none"> <li>Final Written exam</li> </ul>
a2	Identify the etiology, pathogenesis, clinical manifestations, diagnosis differential diagnosis and complications of common surgical disease and important surgical emergencies.	<ul style="list-style-type: none"> <li>Interactive lectures</li> <li>Discussion</li> <li>Self-learning</li> </ul>	<ul style="list-style-type: none"> <li>Quizzes</li> <li>Final Written exam</li> </ul>
<b>(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:</b>			
	<b>Course Intended Learning Outcomes</b>	<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
b1	Distinguish between physiological and pathological performance of body cells.	<ul style="list-style-type: none"> <li>Training</li> <li>Discussion</li> <li>Case studies</li> <li>Self-learning</li> <li>Seminars</li> </ul>	<ul style="list-style-type: none"> <li>Final Written exam</li> <li>Final oral exam</li> <li>OSCE</li> </ul>
b2	Analyze data obtained from medical history, physical examination and para-clinical investigations to reach a final diagnosis and plan the management of common surgical disease and important surgical emergencies.	<ul style="list-style-type: none"> <li>Training</li> <li>Discussion</li> <li>Case studies</li> <li>Self-learning</li> <li>Seminars</li> </ul>	<ul style="list-style-type: none"> <li>Final Written exam</li> <li>Final oral exam</li> <li>OSCE</li> </ul>
<b>(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:</b>			
	<b>Course Intended Learning Outcomes</b>	<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
c1	Perform patient-centered history taking, physical examination and investigations for patient with common surgical conditions and emergency situations.	<ul style="list-style-type: none"> <li>Clinical sessions</li> <li>Training</li> <li>Case studies</li> </ul>	<ul style="list-style-type: none"> <li>Final Clinical Exam</li> <li>OSCE</li> <li>Logbook</li> </ul>

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c2	Prescribe appropriate, safe and affordable drugs for initial treatment of patients with surgical conditions.	<ul style="list-style-type: none"> <li>Clinical sessions</li> <li>Training</li> <li>Case studies</li> </ul>	<ul style="list-style-type: none"> <li>Final Clinical Exam</li> <li>OSCE</li> <li>Logbook</li> </ul>
c3	Apply common laboratory procedures, investigations, and basic interventions that are necessary in relevant surgical conditions.	<ul style="list-style-type: none"> <li>Clinical sessions</li> <li>Training</li> <li>Case studies</li> </ul>	<ul style="list-style-type: none"> <li>Final Clinical Exam</li> <li>OSCE</li> <li>Logbook</li> </ul>
<b>(D) Alignment of Course Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:</b>			
<b>Course Intended Learning Outcomes</b>		<b>Teaching Strategies</b>	<b>Assessment Strategies</b>
d1	Use the information technology and internet resources efficiently for self-learning and gaining up-to-date information in the areas of interest.	<ul style="list-style-type: none"> <li>Discussion</li> <li>Case Study</li> <li>Self Learning</li> <li>Presentation</li> </ul>	<ul style="list-style-type: none"> <li>Oral Discussion</li> <li>Homework</li> <li>Teamwork</li> </ul>
d2	Act independently or collaboratively as a member of teamwork and communicate effectively with others.	<ul style="list-style-type: none"> <li>Discussion</li> <li>Case Study</li> <li>Self Learning</li> <li>Presentation</li> </ul>	<ul style="list-style-type: none"> <li>Oral Discussion</li> <li>Homework</li> <li>Teamwork</li> </ul>

#### IV. Course Contents:

##### A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	Neurosurgery I	– Congenital anomalies of CNS	1 <sup>st</sup> w	2hrs	a1,a2,b1, b2
2	Neurosurgery II	– Intracranial infection		2hrs	a1,a2,b1, b2
3	Neurosurgery III	– CNS tumor		2hrs	a1,a2,b1, b2

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No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
4	Neurosurgery IV	– Hydrocephalus		2hrs	a1,a2,b1, b2
5	Neurosurgery V	– Disc prolapse and back pain		2hrs	a1,a2,b1, b2
6	Neurosurgery VI	– Peripheral neural disorder		2hrs	a1,a2,b1, b2
7	Trauma I	– General principle of trauma management – Skin and soft tissue injury	2 <sup>nd</sup> w	2hrs	a1,a2,b1, b2
8	Trauma II	– Chest injury – Maxillofacial injury		2hrs	a1,a2,b1, b2
9	Trauma III	– Abdominal injury – Extremities injury – vascular injuries		2hrs	a1,a2,b1, b2
10	Trauma IV	– Head injury		2hrs	a1,a2,b1, b2
11	Trauma V	– Spinal cord and peripheral nerve injury		2hrs	a1,b1
12	<b>Final theoretical exam</b>		16 <sup>th</sup> w	2hrs	a1,a2,b1, b2
<b>Number of Weeks /and Units Per Semester</b>			<b>2W</b>	<b>24hrs</b>	

### B. Case Studies and Practical Aspect:

No.	Tasks/ Experiments	Week Due	Contact Hours	Learning Outcomes (CILOs)
1	- History and examination of patient with neurosurgical disorder	1 <sup>st</sup> w	3hr	b1, c1,c2,d2
2	- Evaluation skills for patient with CNS infection and plan for management		3hr	b2,c1,c2,c3,d2
3	- Evaluation skills for patient with		3hr	b1,b2,c1,c2,c3,d2

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No.	Tasks/ Experiments	Week Due	Contact Hours	Learning Outcomes (CILOs)
	congenital anomalies of CNS and plan for management - Evaluation skills for patient with hydrocephalus and plan for management			
4	- Evaluation skills for patient with brain tumor and plan for management		3hr	b1,c1,c2,c3,d1,d2
5	- Evaluation skills for patient with disc prolapse and low back pain and plan for management - Evaluation skills for patient with peripheral neural disorder and plan for management		3hr	b2,c1,c2,c3,d1,d2
6	- Evaluation skills for thoracic injury and initial and definitive management		3hr	b1,c1,c2,c3,d1,d2
7	- Evaluation skills for abdominal injury and initial and definitive management		3hr	b1,b2,c1,c2,c3,d1,d2
8	- Evaluation skills for head and brain injury and plan of management	1 <sup>st</sup> , 2 <sup>nd</sup> w	3hr	b1,b2,c1,c2,c3,d1,d2
9	- Evaluation skills for spinal cord injury and plan of management		3hr	b1, c1,c2,c3,d1,d2
10	- Evaluation skills for peripheral neural injury and plan of management		3hr	b1, c1,c2,c3,d1,d2
11	- Evaluation skills for maxillofacial injury and plan of management		3hr	b2,c1,c2,c3,d1,d2
12	- Evaluation skills for neck injury and plan of management	2 <sup>nd</sup> w	3hr	b1, c1,c2,c3,d1,d2
13	- Radiological interpretation for important surgical cases		3hr	b2,c1,c2,c3,d1,d2

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No.	Tasks/ Experiments	Week Due	Contact Hours	Learning Outcomes (CILOs)
14	<ul style="list-style-type: none"> <li>- Instruments that used in general surgery.</li> <li>- Tube insertion ( IV cannula , Foley's catheter , NGT , Endotracheal tube )</li> <li>- Various draining tubes.</li> </ul>		3hr	c1,c2,c3,d1,d2
15	<ul style="list-style-type: none"> <li>- Observation of various surgical incisions.</li> <li>- Suturing techniques</li> </ul>		3hr	c1,c2,c3,d1,d2
16	Final clinical and oral exam	15 <sup>th</sup> w	3hr	b1,b2,c1,c2,c3,d1,d2
<b>Number of Weeks /and Units Per Semester</b>		<b>2W</b>	<b>48hrs</b>	

## V. Teaching Strategies of the Course:

Interactive Lectures  
Training  
Clinical sessions  
Case studies  
Discussion  
Self-learning  
Seminars  
Presentation

## VI. Assessment Methods of the Course:

- Quizzes
- Final clinical
- Final oral exam
- Final Writing Exam
- OSCE
- Logbook
- Oral discussion
- Homework

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- Teamwork

### VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Logbook	1,2 <sup>nd</sup> W	10	10%	c1, c2
2	Quizzes & Oral discussion	2 <sup>nd</sup> W	10	10%	a1,a2, d1,d2
3	Final clinical & Oral Exam	15 <sup>th</sup> W	30	30%	b1,b2, c1, c2, d1,d2
4	Final Theoretical Exam & OSCE	16 <sup>th</sup> W	50	50%	a1,a2, b1,b2
Total			100	100%	

### IX. Learning Resources:

#### 1- Required Textbook(s):

- 1- Normans S.Williams ,P.Ronan O`Connell, Andrew McCaskie 2018 , Bailey and love`s short practice of surgery , 27<sup>th</sup> Edition , UK, CRC Press .
- 2- Kevin G. Burnand , 2021 , Bailey and love`s short practice of surgery , 6<sup>th</sup> Edition , UK , CRC Press .

#### 2- Essential References:

- 3- F.Charles Brunicardi et. al , 2019 , Schwartz`s principles of surgery , 11<sup>th</sup> Edition , USA , McGraw-Hill Education.

#### 3- Electronic Materials and Web Sites etc.:

##### Websites:

- 1- The Visible Body Learn Site  
<https://www.visiblebody.com/learn/nervous>
- 2- Medical news today  
<https://www.medicalnewstoday.com/articles/307076>

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## X. Course Policies: (Based on the Uniform Students' By law (2007))

1	<b>Class Attendance:</b> Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.
2	<b>Tardiness:</b> A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
3	<b>Exam Attendance/Punctuality:</b> No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.
4	<b>Assignments &amp; Projects:</b> Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
5	<b>Cheating:</b> Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
6	<b>Forgery and Impersonation:</b> Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
7	<b>Other policies:</b> The University official regulations in force will be strictly observed and students shall comply with all rules and regulations of the examination set by the Department, Faculty and University Administration.

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## Faculty of Medicine

### Bachelor Program of Medicine and Surgery

## Course Plan (Syllabus) of

## Neurosurgery

### Course Code. (A21P514)

I. Information about Faculty Member Responsible for the Course:							
Name of Faculty Member:		Office Hours					
Location & Telephone No.:	----						
E-mail:	--@--.--	SAT	SUN	MON	TUE	WED	THU

2023

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## II. Course Identification and General Information:

Course Title:	Neurosurgery				
Course Code:	A21P514				
Credit Hours:	Credit Hours	Theory Contact Hours		Practical Contact Hours	Clinical
		Lecture	Tutorial/Seminar	Lab	
	3	2	--		
Level/ Semester at which this Course is offered:	5th Level / 1st Semester				
Pre –Requisite (if any):	All Systems, all Clinical Subjects				
Co –Requisite (if any):	None				
Program (s) in which the Course is Offered:	Bachelor of Medicine and surgery				
Language of Teaching the Course:	English				
Location of Teaching the Course:	Faculty of Medicine				
Prepared by:	Dr. Mohammed Shamualdeen				
11 Date and Number of Approval by Council:	2023				

## III. Course Description:

The course is the fourth course in surgery. Students will have advanced clinical training with emphasis on life threatening conditions and real-life scenarios. Students are expected to choose relevant investigations, formulate proper management plans and modify their plans according to the outcomes. Theoretical knowledge will cover neurosurgery and trauma.

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#### IV. Course Intended Learning Outcomes (CILOs) :

Upon successful completion of the Course, student will be able to:

	<b>A. Knowledge and Understanding:</b>
a1	Describe the normal structure and function of the human body at molecular, cellular and biochemical, in relation to general surgical disease.
a2	Identify the etiology, pathogenesis, clinical manifestations, diagnosis differential diagnosis and complications of common surgical disease and important surgical emergencies.
	<b>B. Intellectual Skills:</b>
b1	Distinguish between physiological and pathological performance of body cells.
b2	Analyze data obtained from medical history, physical examination and para-clinical investigations to reach a final diagnosis and plan the management of common surgical disease and important surgical emergencies.
	<b>C. Professional and Practical Skills:</b>
c1	Perform patient-centered history taking, physical examination and investigations for patient with common surgical conditions and emergency situations.
c2	Prescribe appropriate, safe and affordable drugs for initial treatment of patients with surgical conditions.
c3	Apply common laboratory procedures, investigations, and basic interventions that are necessary in relevant surgical conditions.
	<b>D. Transferable Skills:</b>
d1	Use the information technology and internet resources efficiently for self-learning and gaining up-to-date information in the areas of interest.
d2	Act independently or collaboratively as a member of teamwork and communicate effectively with others.
<b>I= Introduced, P=Practiced or M/A= Mastered/Advanced</b>	

#### IV. Course Contents:

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### A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
1	Neurosurgery I	– Congenital anomalies of CNS	1 <sup>st</sup> w	2hrs
2	Neurosurgery II	– Intracranial infection		2hrs
3	Neurosurgery III	– CNS tumor		2hrs
4	Neurosurgery IV	– Hydrocephalus		2hrs
5	Neurosurgery V	– Disc prolapse and back pain		2hrs
6	Neurosurgery VI	– Peripheral neural disorder		2hrs
7	Trauma I	– General principle of trauma management – Skin and soft tissue injury	2 <sup>nd</sup> w	2hrs
8	Trauma II	– Chest injury – Maxillofacial injury		2hrs
9	Trauma III	– Abdominal injury – Extremities injury – vascular injuries		2hrs
10	Trauma IV	– Head injury		2hrs
11	Trauma V	– Spinal cord and peripheral nerve injury		2hrs
12	<b>Final theoretical exam</b>		16 <sup>th</sup> w	2hrs
<b>Number of Weeks /and Units Per Semester</b>			<b>2W</b>	<b>24hrs</b>

### B. Case Studies and Practical Aspect:

No.	Tasks/ Experiments	Week Due	Contact Hours
1	- History and examination of patient with neurosurgical disorder	1 <sup>st</sup> w	3hr
2	- Evaluation skills for patient with CNS infection and plan for management		3hr
3	- Evaluation skills for patient with congenital anomalies of		3hr

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No.	Tasks/ Experiments	Week Due	Contact Hours
	CNS and plan for management - Evaluation skills for patient with hydrocephalus and plan for management		
4	- Evaluation skills for patient with brain tumor and plan for management		3hr
5	- Evaluation skills for patient with disc prolapse and low back pain and plan for management - Evaluation skills for patient with peripheral neural disorder and plan for management		3hr
6	- Evaluation skills for thoracic injury and initial and definitive management		3hr
7	- Evaluation skills for abdominal injury and initial and definitive management		3hr
8	- Evaluation skills for head and brain injury and plan of management	1 <sup>st</sup> , 2 <sup>nd</sup> w	3hr
9	- Evaluation skills for spinal cord injury and plan of management		3hr
10	- Evaluation skills for peripheral neural injury and plan of management		3hr
11	- Evaluation skills for maxillofacial injury and plan of management		3hr
12	- Evaluation skills for neck injury and plan of management		3hr
13	- Radiological interpretation for important surgical cases		3hr
14	- Instruments that used in general surgery. - Tube insertion ( IV cannula , Foley`s catheter , NGT , Endotracheal tube ) - Various draining tubes.	2 <sup>nd</sup> w	3hr
15	- Observation of various surgical incisions.		3hr

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No.	Tasks/ Experiments	Week Due	Contact Hours
	- Suturing techniques		
16	Final clinical and oral exam	15 <sup>th</sup> w	3hr
<b>Number of Weeks /and Units Per Semester</b>		<b>2W</b>	<b>48hrs</b>

### V. Teaching Strategies of the Course:

Interactive Lectures  
Training  
Clinical sessions  
Case studies  
Discussion  
Self-learning  
Seminars  
Presentation

### VI. Assessment Methods of the Course:

- Quizzes
- Final clinical
- Final oral exam
- Writing Exam
- OSCE
- Logbook
- Oral discussion

### VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment
1	Logbook	1,2 <sup>nd</sup> W	10	10%

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No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment
2	Quizzes & Oral desiccation	2 <sup>nd</sup> W	10	10%
3	Final clinical & Oral Exam	15 <sup>th</sup> W	30	30%
4	Final Theoretical Exam & OSCE	16 <sup>th</sup> W	50	50%
Total			100	100%

## IX. Learning Resources:

### 1- Required Textbook(s):

- 1- Normans S.Williams ,P.Ronan O`Connell, Andrew McCaskie 2018 , Bailey and love`s short practice of surgery , 27<sup>th</sup> Edition , UK, CRC Press .
- 2- Kevin G. Burnand , 2021 , Bailey and love`s short practice of surgery , 6<sup>th</sup> Edition , UK , CRC Press .

### 2- Essential References:

- 1- F.Charles Brunicardi et. al , 2019 , Schwartz`s principles of surgery , 11<sup>th</sup> Edition , USA , McGraw-Hill Education.

### 3- Electronic Materials and Web Sites etc.:

#### Websites:

- 3- The Visible Body Learn Site  
<https://www.visiblebody.com/learn/nervous>
- 4- Medical news today  
<https://www.medicalnewstoday.com/articles/307076>

## XI. Course Policies: (Based on the Uniform Students' Bylaw (2007))

1	<b>Class Attendance:</b> Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.
2	<b>Tardiness:</b> A student will be considered late if he/she is not in class after 10 minutes of the start time of

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	class.
3	<b>Exam Attendance/Punctuality:</b> No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.
4	<b>Assignments &amp; Projects:</b> Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
5	<b>Cheating:</b> Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
6	<b>Forgery and Impersonation:</b> Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
7	<b>Other policies:</b> The University official regulations in force will be strictly observed and students shall comply with all rules and regulations of the examination set by the Department, Faculty and University Administration.

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