

Course Title	Anatomy II				
Course Code	MED-206				
Course Type	Required				
Level	Undergraduate				
Year / Semester	Year 2/ Semester 4 (Spring)				
Teacher's Name	Course Lead: Prof Panagiotis Karanis Contributor: Dr Marios Zertalis				
ECTS	6	Lectures / week	2.5	Laboratories / week	2.5
Course Purpose and Objectives	The main objectives of this course are: <ul style="list-style-type: none"> • To help students understand the human body and its constituent tissues and organs as well as their associated function. • To help students recognize deviations from normal structure and function with the aim to diagnose abnormal clinical conditions caused by altered anatomy. 				
Learning Outcomes	The body systems to be covered are: Urinary system, Reproductive system, Central and Peripheral Nervous Systems, Musculoskeletal System, Skin and related connective tissue and Sensory organs. The following list provides the learning objectives (LOBs) that will be covered in the lectures and lab practicals of each week (please note that the learning objectives covered during the lectures of a particular week are also covered during the practical of the following week): <p>Week 1</p> <p><i>LOBs covered during practical:</i></p> <ol style="list-style-type: none"> 1. Describe the structure of the auditory system in terms of the tympanic membrane, bones and muscles of the middle ear and cochlea, and outline the neural pathways finally leading to the auditory cortex. 2. Describe the structure and function of the auditory system (outer ear, tympanic membrane, middle ear, inner ear). 3. Describe the structure and function of the pharynx and the pharyngotympanic tube. 4. Describe the anatomy of the eye, central visual pathways and major periorbital structures, including the extraocular muscles and their innervation. 5. Explain the anatomical basis of the pupillary light and accommodation reflexes. 6. Describe the different wall layers of the eye. 7. Describe the function of the lens of the eye. 8. Perform an Ultrasound assessment of the eye. 				

LOBs covered during lectures:

1. Describe the structure of the auditory system in terms of the tympanic membrane, bones and muscles of the middle ear and cochlea, and outline the neural pathways finally leading to the auditory cortex.
2. Describe the structure and function of the auditory system (outer ear, tympanic membrane, middle ear, inner ear).
3. Describe the structure and function of the pharynx and the pharyngotympanic tube.
4. Describe the anatomy of the eye, central visual pathways and major periorbital structures, including the extraocular muscles and their innervation.
5. Explain the anatomical basis of the pupillary light and accommodation reflexes.
6. Describe the different wall layers of the eye.
7. Describe the function of the lens of the eye.
8. Describe embryonic development, fetal maturation, and perinatal changes, including gametogenesis.
9. Describe and identify the major features of the male reproductive organs (scrotum, testis, epididymis).
10. Describe and identify the major constituents of the spermatic cord.
11. Outline the descent of the testes from the posterior abdominal wall, through the inguinal canal, into the scrotum.
12. Describe the clinical significance of the embryological processes vaginalis.
13. Describe and identify the origin, course, embryological significance and relations of the testicular arteries.
14. Describe the clinical significance of the venous drainage of the testis and epididymis in relation to varicocele.
15. Describe the clinical significance of the lymphatic drainage of the scrotum and testis in relation to tumour spread.
16. Describe the role of cremasteric muscle, dartos muscle and pampiniform plexus of veins in maintaining the optimum temperature for spermatogenesis.
17. Describe and identify the relations of the urinary bladder in males including the overlying peritoneum.
18. Describe and identify the major features of the urethra in males (prostatic, membranous and spongy).
19. Describe the anatomical features that might make urinary catheterisation difficult to perform in males.
20. Describe and identify the major features of the seminal vesicles.
21. Describe and identify the major features of the prostate gland.
22. Describe and identify the relations of the prostate gland (rectum, seminal vesicles, urinary bladder).
23. Compare and contrast the anatomical features of benign prostatic hyperplasia with malignant prostatic neoplasm.
24. Describe and identify the blood supply to and from the prostate gland (prostatic venous plexus).
25. Discuss the clinical significance of the venous drainage from the prostate gland.
26. Identify and describe the location and function of the bulbourethral gland (of Cowper).
27. Describe and identify the major components of the penis (corpora cavernosa, corpus spongiosum, glans penis etc.), their location and function.
28. Describe the process of insemination (erection, emission and ejaculation).
29. Outline the neurological significance of retrograde ejaculation with the significance of internal urethral sphincter.

30. Describe Scarpa and Colle's fascia and their relation with extravasation of urine.
31. Describe and identify the boundaries and relations of the inguinal canal in males.
32. Define and identify the differential contents of the inguinal canal in males.
33. Differentiate between direct and indirect inguinal hernias.

Week 2

LOBs covered during practical:

9. Describe embryonic development, fetal maturation, and perinatal changes, including gametogenesis.
10. Describe and identify the major features of the male reproductive organs (scrotum, testis, epididymis).
11. Describe and identify the major constituents of the spermatic cord.
12. Outline the descent of the testes from the posterior abdominal wall, through the inguinal canal, into the scrotum.
13. Describe the clinical significance of the embryological processes vaginalis.
14. Describe and identify the origin, course, embryological significance and relations of the testicular arteries.
15. Describe the clinical significance of the venous drainage of the testis and epididymis in relation to varicocele.
16. Describe the clinical significance of the lymphatic drainage of the scrotum and testis in relation to tumour spread.
17. Describe the role of cremasteric muscle, dartos muscle and pampiniform plexus of veins in maintaining the optimum temperature for spermatogenesis.
18. Describe and identify the relations of the urinary bladder in males including the overlying peritoneum.
19. Describe and identify the major features of the urethra in males (prostatic, membranous and spongy).
20. Describe the anatomical features that might make urinary catheterisation difficult to perform in males.
21. Describe and identify the major features of the seminal vesicles.
22. Describe and identify the major features of the prostate gland.
23. Describe and identify the relations of the prostate gland (rectum, seminal vesicles, urinary bladder).
24. Compare and contrast the anatomical features of benign prostatic hyperplasia with malignant prostatic neoplasm.
25. Describe and identify the blood supply to and from the prostate gland (prostatic venous plexus).
26. Discuss the clinical significance of the venous drainage from the prostate gland.
27. Identify and describe the location and function of the bulbourethral gland (of Cowper).
28. Describe and identify the major components of the penis (corpora cavernosa, corpus spongiosum, glans penis etc.), their location and function.
29. Describe the process of insemination (erection, emission and ejaculation).
30. Outline the neurological significance of retrograde ejaculation with the significance of internal urethral sphincter.
31. Describe Scarpa and Colle's fascia and their relation with extravasation of urine.
32. Describe and identify the boundaries and relations of the inguinal canal in males.

33. Define and identify the differential contents of the inguinal canal in males.
34. Differentiate between direct and indirect inguinal hernias.
35. Identify normal anatomy of the prostate and seminal vesicles using imaging modalities (US,MRI).
36. Identify normal anatomy of the testes and scrotum using ultrasounds.
37. Identify normal anatomy of the penis and urethra using imaging modalities (US,MRI).

LOBs covered during lectures:

34. Describe the anatomy of the breast.
35. Describe the blood supply and lymphatic drainage of the breast.
36. Describe the brachial plexus and identify its major terminal branches.
37. Identify breast normal and pathological structures in radiological images.
38. Describe, in general terms, the relationship between the pelvic peritoneum and the female pelvic organs.
39. Describe and identify the major features of the internal female reproductive organs (ovaries, uterine tubes, uterus, cervix, endocervix and vagina).
40. Describe and identify the relations of female reproductive organs with rectum, bladder and urethra.
41. Describe and identify the innervation of the ovaries, uterine tubes, uterus, cervix, vagina and vulva.
42. Describe the clinical significance of the blood supply, innervation and lymphatic drainage from the ovaries, uterine tubes, uterus, cervix, vagina and vulva.
43. Describe and identify the origin, course and relations of the uterine and ovarian arteries.
44. Identify the relationship of uterine artery and ureter and the importance of this relation in hysterectomy.
45. Describe, in general terms, the major supports for the uterus.
46. Describe and identify the features of uterine fibroids.
47. Describe, in general terms, the autonomic innervation of the urinary bladder, in micturition and maintenance of continence.
48. Describe the anatomy of clitoris.
49. Describe the anatomy of the urethra in relationship to continence and catheterisation.
50. Describe and identify the major features of the external genitalia (vulva) in females, its lymphatic drainage and sites of episiotomies.
51. Describe the origin, course and main branches of the pudendal nerves and the sites of nerve block during childbirth.
52. Describe the mechanism of erection of cavernous tissue in the female.

Week 3

LOBs covered during practical:

38. Describe the anatomy of the breast.
39. Describe the blood supply and lymphatic drainage of the breast.
40. Describe the brachial plexus and identify its major terminal branches.
41. Identify breast normal and pathological structures in radiological images.
42. Describe, in general terms, the relationship between the pelvic peritoneum and the female pelvic organs.

43. Describe and identify the major features of the internal female reproductive organs (ovaries, uterine tubes, uterus, cervix, endocervix and vagina).
44. Describe and identify the relations of female reproductive organs with rectum, bladder and urethra.
45. Describe and identify the innervation of the ovaries, uterine tubes, uterus, cervix, vagina and vulva.
46. Describe the clinical significance of the blood supply, innervation and lymphatic drainage from the ovaries, uterine tubes, uterus, cervix, vagina and vulva.
47. Describe and identify the origin, course and relations of the uterine and ovarian arteries.
48. Identify the relationship of uterine artery and ureter and the importance of this relation in hysterectomy.
49. Describe, in general terms, the major supports for the uterus.
50. Describe and identify the features of uterine fibroids.
51. Describe, in general terms, the autonomic innervation of the urinary bladder, in micturition and maintenance of continence.
52. Describe the anatomy of clitoris.
53. Describe the anatomy of the urethra in relationship to continence and catheterisation.
54. Describe and identify the major features of the external genitalia (vulva) in females, its lymphatic drainage and sites of episiotomies.
55. Describe the origin, course and main branches of the pudendal nerves and the sites of nerve block during childbirth.
56. Describe the mechanism of erection of cavernous tissue in the female.
57. Identify normal anatomy of the uterus using imaging modalities (US,MRI).
58. Identify normal anatomy of the cervix using ultrasounds.
59. Identify normal anatomy of the vagina using ultrasounds.
60. Identify normal anatomy of the ovaries using ultrasounds.
61. Identify normal anatomy of the pelvic floor using ultrasounds.

LOBs covered during lectures:

53. Describe the anatomy of bones of the skull, the cranial cavity, the meninges and the dural reflections.
54. Describe the anatomy of the cerebral ventricles and the circulation of the CSF.
55. Describe the anatomical basis of lumbar puncture.
56. Outline the anterior circulation to the brain.
57. Outline the posterior circulation to the brain.
58. Outline the venous drainage of the brain, including the concept of the dural venous sinuses and the important anatomical relationships of the cavernous sinus.

Week 4

LOBs covered during practical:

57. Describe the anatomy of bones of the skull, the cranial cavity, the meninges and the dural reflections.
58. Describe the anatomy of the cerebral ventricles and the circulation of the CSF.
59. Describe the anatomical basis of lumbar puncture.
60. Outline the anterior circulation to the brain.
61. Outline the posterior circulation to the brain.

62. Outline the venous drainage of the brain, including the concept of the dural venous sinuses and the important anatomical relationships of the cavernous sinus.
63. Describe major divisions of the CNS.
64. Locate cranial nerves and the structures supplied by each nerve.
65. Describe anatomy of the brain stem and cerebellum.
66. Describe the functional divisions of the cerebellum, its connections with the brain stem.
67. Describe the anatomy, relations and functions of cranial nerves.
68. Perform a transcranial doppler examination.
69. Identify normal anatomy of the brain using ultrasounds.

LOBs covered during lectures:

59. Describe major divisions of the CNS.
60. Locate cranial nerves and the structures supplied by each nerve.
61. Describe anatomy of the brain stem and cerebellum.
62. Describe the functional divisions of the cerebellum, its connections with the brain stem
63. Describe the anatomy, relations and functions of cranial nerves.
64. Describe the anatomy of the spinal cord and its surrounding structures.
65. Differentiate the arrangement of grey and white matter in the spinal cord and the location of the most clinically-important white matter pathways.
66. Describe the anatomy of the corticospinal and corticobulbar tracts (somatic motor).
67. Describe the spinothalamic and dorsal column pathways (somatic sensory).
68. Describe the anatomy of the craniosacral (parasympathetic) and thoracolumbar (sympathetic) outflows of the spinal cord and the sympathetic chain ganglia.
69. Describe what is meant by 'upper motor neurone' (UMN) and 'lower motor neurone' (LMN).
70. Outline the anatomy and function of components of the CNS related to sensation in all its modalities: Spinal Cord, Brain Stem, Cortex.
71. Explain how and why sensory pathways are topographically organised, and why the resulting 'maps' may have a distorted scale.
72. Revise the divisions, structures and major outflow tracks of the autonomic nervous system

Week 5

LOBs covered during practical:

70. Describe the anatomy of the spinal cord and its surrounding structures.
71. Differentiate the arrangement of grey and white matter in the spinal cord and the location of the most clinically-important white matter pathways.
72. Describe the anatomy of the corticospinal and corticobulbar tracts (somatic motor).
73. Describe the spinothalamic and dorsal column pathways (somatic sensory).
74. Describe the anatomy of the craniosacral (parasympathetic) and thoracolumbar (sympathetic) outflows of the spinal cord and the sympathetic chain ganglia.
75. Describe what is meant by 'upper motor neurone' (UMN) and 'lower motor neurone' (LMN).
76. Outline the anatomy and function of components of the CNS related to sensation in all its modalities: Spinal Cord, Brain Stem, Cortex.

77. Explain how and why sensory pathways are topographically organised, and why the resulting 'maps' may have a distorted scale.
78. Revise the divisions, structures and major outflow tracks of the autonomic nervous system.
79. Identify normal anatomy of the brain, vertebral column and spinal cord using MRI.

LOBs covered during lectures:

73. Identify the main parts of the basal ganglia and internal capsule and their three-dimensional arrangement around the lateral ventricle.
74. Identify the thalamus, hypothalamus and pineal gland and their relations to the third ventricle.
75. Describe the three-dimensional shape of corpus stratum and how it relates to the ventricular system and internal capsule.
76. Identify the main components of limbic lobe, including the hippocampus, fornix and amygdala.
77. Review the blood supply to the deep grey matter structures of the brain.

Week 6

LOBs covered during practical:

81. Identify the main parts of the basal ganglia and internal capsule and their three-dimensional arrangement around the lateral ventricle.
82. Identify the thalamus, hypothalamus and pineal gland and their relations to the third ventricle.
83. Describe the three-dimensional shape of corpus stratum and how it relates to the ventricular system and internal capsule.
84. Identify the main components of limbic lobe, including the hippocampus, fornix and amygdala.
85. Review the blood supply to the deep grey matter structures of the brain.
86. Identify normal anatomy of the vertebral column and spinal cord using ultrasounds.

LOBs covered during lectures:

78. Describe the general function of the skeleton and joints.
79. Describe the structure and properties of different types of cartilage.
80. Describe the structure and movements of the knee and hip joints, including the organisation and functions of the ligaments.
81. Demonstrate an overview of the key functions and structures of the musculoskeletal system.
82. Outline the structure and function (stability and mobility) of the hip joint and its bony components.
83. Describe the static support of hip joints (ligaments and joint capsule).
84. Outline the musculature and Fascia of the hip and thigh.
85. Describe the muscles moving the hip joint.
86. Outline the blood supply (vasculature) to the hip joint and femoral head.
87. Describe the innervation of the hip joint and the musculature involved in moving the hip.

Week 7

LOBs covered during practical:

87. Describe the general function of the skeleton and joints.
88. Describe the structure and properties of different types of cartilage.
89. Describe the structure and movements of the knee and hip joints, including the organisation and functions of the ligaments.
90. Demonstrate an overview of the key functions and structures of the musculoskeletal system.
91. Outline the structure and function (stability and mobility) of the hip joint and its bony components.
92. Describe the static support of hip joints (ligaments and joint capsule).
93. Outline the musculature and Fascia of the hip and thigh.
94. Describe the muscles moving the hip joint.
95. Outline the blood supply (vasculature) to the hip joint and femoral head.
96. Describe the innervation of the hip joint and the musculature involved in moving the hip.
97. Identify normal anatomy of the hip and thigh muscles using ultrasounds.

LOBs covered during lectures:

88. Describe the bony components of the leg, knee and ankle joints.
89. Outline the static support of the knee and ankle joints (ligaments and joint capsule).
90. Describe the articular cartilage and menisci of the knee.
91. Describe the musculature, fascia and cartilage of the knee and ankle.
92. Describe the muscles moving the knee joint.
93. Describe the muscles moving the ankle joint.
94. Describe the muscles of the foot.
95. Describe the innervation of knee joint and the musculature involved in moving the knee.
96. Describe the innervation of knee joint and the musculature involved in moving the ankle.

Week 8

LOBs covered during practical:

98. Describe the bony components of the leg, knee and ankle joints.
99. Outline the static support of the knee and ankle joints (ligaments and joint capsule).
100. Describe the articular cartilage and menisci of the knee.
101. Describe the musculature, fascia and cartilage of the knee and ankle.
102. Describe the muscles moving the knee joint.
103. Describe the muscles moving the ankle joint.
104. Describe the muscles of the foot.
105. Describe the innervation of knee joint and the musculature involved in moving the knee.
106. Describe the innervation of knee joint and the musculature involved in moving the ankle.
107. Identify normal anatomy of the knee using ultrasounds.
108. Identify normal anatomy of the ankle using ultrasounds.

LOBs covered during lectures:

97. Describe the bony components of the shoulder and upper limb.
98. Describe the structure and function (stability and mobility) of the glenohumeral joint and its bony components.
99. Describe the structure and function (stability and mobility) of the elbow joint and its bony components.
100. Describe the components and movements of the pectoral girdle.
101. Explain the static supports (joint capsules, ligaments) of the shoulder and elbow joints.
102. Describe the musculature and fascia of the shoulder and elbow.
103. Describe the muscles involved in moving the shoulder joint.
104. Describe the muscles involved in moving the elbow joint.
105. Outline the blood supply (vasculature) to the shoulder joint.
106. Describe the blood supply to the upper limb.
107. Describe the innervation to the shoulder and elbow joints.
108. Describe the brachial plexus and its terminal branches.

Week 9

LOBs covered during practical:

109. Describe the bony components of the shoulder and upper limb.
110. Describe the structure and function (stability and mobility) of the glenohumeral joint and its bony components.
111. Describe the structure and function (stability and mobility) of the elbow joint and its bony components.
112. Describe the components and movements of the pectoral girdle.
113. Explain the static supports (joint capsules, ligaments) of the shoulder and elbow joints.
114. Describe the musculature and fascia of the shoulder and elbow.
115. Describe the muscles involved in moving the shoulder joint.
116. Describe the muscles involved in moving the elbow joint.
117. Outline the blood supply (vasculature) to the shoulder joint.
118. Describe the blood supply to the upper limb.
119. Describe the innervation to the shoulder and elbow joints.
120. Describe the brachial plexus and its terminal branches.
121. Identify normal anatomy of the shoulder using ultrasounds.

LOBs covered during lectures:

109. Describe the bony components of forearm, wrist and hand.
110. Describe Carpal Tunnel.
111. Outline the musculature and fascia of the forearm, wrist and hand.
112. Describe the muscles and associated compartments of the forearm.
113. Outline the boundaries of 'anatomical snuffbox.'
114. Describe the groups of intrinsic muscles of the hand.
115. Describe the blood supply (vasculature) to and drainage from the forearm and the hand.
116. Explain the clinical significance of the blood supply to hand.
117. Describe the innervation of the forearm compartments.
118. Describe the innervation to the hand.

Week 10

LOBs covered during practical:

123. Describe the bony components of forearm, wrist and hand.
124. Describe Carpal Tunnel.
125. Outline the musculature and fascia of the forearm, wrist and hand.
126. Describe the muscles and associated compartments of the forearm.
127. Outline the boundaries of 'anatomical snuffbox.'
128. Describe the groups of intrinsic muscles of the hand.
129. Describe the blood supply (vasculature) to and drainage from the forearm and the hand.
130. Explain the clinical significance of the blood supply to hand.
131. Describe the innervation of the forearm compartments.
132. Describe the innervation to the hand.

LOBs covered during lectures:

119. Describe the anatomy of the vertebral column.
120. Identify the different types of vertebra.
121. Identify the facets of vertebra and types of joints between them.
122. Describe the anatomy of the ribs.
123. Describe true ribs, false ribs, manubrium, body and xiphoid process of the sternum, clavicle scapula, muscles of the thoracic wall, boundaries and contents of the axilla.
124. Recognise the differences between the rib cage in the adult and child.
125. Describe the intrinsic and extrinsic muscles of breathing.
126. Identify the different layers of the abdominal wall.
127. Identify the muscles of the abdominal wall.
128. Describe the layers of the rectus sheath.
129. Describe the different muscles of the anterior and posterior thorax and their movements.
130. Describe what a rotator cuff injury.
131. Describe the muscles of the back and their actions.

Week 11

LOBs covered during practical:

137. Describe the anatomy of the vertebral column.
138. Identify the different types of vertebra.
139. Identify the facets of vertebra and types of joints between them.
140. Describe the anatomy of the ribs.
141. Describe true ribs, false ribs, manubrium, body and xiphoid process of the sternum, clavicle scapula, muscles of the thoracic wall, boundaries and contents of the axilla.
142. Recognise the differences between the rib cage in the adult and child.
143. Describe the intrinsic and extrinsic muscles of breathing.
144. Identify the different layers of the abdominal wall.
145. Identify the muscles of the abdominal wall.
146. Describe the layers of the rectus sheath.
147. Describe the different muscles of the anterior and posterior thorax and their movements.
148. Describe what a rotator cuff injury.
149. Describe the muscles of the back and their actions.
150. Identify the facial muscles and their innervation.
151. Describe the clinical presentation of facial nerve palsy.
152. Describe the bones that form the skull.
153. Describe the foramina of the skull and the structures that enter or exit the Cranium cavity.
154. Identify normal anatomy of the arm using ultrasounds.

	<p>155. Identify normal anatomy of the forearm using ultrasounds. 156. Identify normal anatomy of the wrist and hand using ultrasounds.</p> <p>LOBs covered during lecture:</p> <p>132. Identify the facial muscles and their innervation. 133. Describe the clinical presentation of facial nerve palsy. 134. Describe the bones that form the skull. 135. Describe the foramina of the skull and the structures that enter of exit the Cravial cavity. 136. Describe the anatomy of the skin. 137. Describe the different layers of the skin. 138. Describe the skin appendices and their function. 139. Describe the anatomy of the hair follicles. 140. Describe the anatomy of the nails and the nail bed. 141. Describe the blood supply of the skin. 142. Describe the meaning of the dermatome and identify major spinal levels for dermatome innervation.</p> <p>Week 12</p> <p>LOBs covered during practical:</p> <p>157. Describe the anatomy of the skin. 158. Describe the different layers of the skin. 159. Describe the skin appendices and their function. 160. Describe the anatomy of the hair follicles. 161. Describe the anatomy of the nails and the nail bed. 162. Describe the blood supply of the skin. 163. Describe the meaning of the dermatome and identify major spinal levels for dermatome innervation.</p>		
Prerequisites	None	Required	None
Course Content	<p><u>Topics covered in lectures:</u></p> <ul style="list-style-type: none"> • SENSORY ORGANS: Anatomy of the ear, anatomy of the eye. • REPRODUCTIVE SYSTEM I: Male reproductive system. • REPRODUCTIVE SYSTEM II: Female breast and female pelvic anatomy. • NERVOUS SYSTEM I: CNS overview, protection and blood supply. • NERVOUS SYSTEM II: Brain stem, cerebellum. • NERVOUS SYSTEM III: Central and Peripheral Nervous Systems - Sensory and Motor Pathways. • NERVOUS SYSTEM IV: Anatomy of basal ganglia, thalamus and limbic lobe. • MUSCULOSKELETAL SYSTEM I: Overview of the musculoskeletal system and Anatomy of hip and thigh. • MUSCULOSKELETAL SYSTEM II: Knee, shin, ankle, foot. • MUSCULOSKELETAL SYSTEM III: Shoulder and elbow. • MUSCULOSKELETAL SYSTEM IV: Arm, forearm, wrist and hand. • MUSCULOSKELETAL SYSTEM V: Torso, thorax, abdomen, vertebra and facial muscles, skull. • SKIN AND RELATED CONNECTIVE TISSUE <p><u>Topics covered in practicals:</u></p> <ul style="list-style-type: none"> • SENSORY ORGANS: Anatomy of the Ear and Anatomy of the Eye. • REPRODUCTIVE SYSTEM I: Male reproductive system and REPRODUCTIVE SYSTEM II: Female breast and female pelvic anatomy. 		

	<ul style="list-style-type: none"> • NERVOUS SYSTEM I: CNS overview, protection, and blood supply and NERVOUS SYSTEM II: brain stem cerebellum. • NERVOUS SYSTEM III: Central and Peripheral Nervous Systems - Sensory and Motor Pathways. • NERVOUS SYSTEM IV: Anatomy of basal ganglia, thalamus and limbic lobe. • MUSCULOSKELETAL SYSTEM I: Overview of the musculoskeletal system and anatomy of hip and thigh. • MUSCULOSKELETAL SYSTEM II: Knee, shin, ankle, foot. • MUSCULOSKELETAL SYSTEM III: Shoulder and elbow. • MUSCULOSKELETAL SYSTEM IV: Arm, Forearm, wrist and hand and MUSCULOSKELETAL SYSTEM V: Torso, thorax, abdomen, vertebra and Facial muscles and skull. • SKIN AND RELATED CONNECTIVE TISSUE. 																																										
Teaching Methodology	Lectures and Practical's.																																										
Bibliography	<p>Required Textbooks/Reading:</p> <table border="1"> <thead> <tr> <th>Authors</th> <th>Title</th> <th>Edition</th> <th>Publisher</th> <th>Year</th> <th>ISBN</th> </tr> </thead> <tbody> <tr> <td>Arthur F. Dalley, Anne M. R. Agur</td> <td>Moore's Clinically oriented anatomy</td> <td>9th Int'l Edition</td> <td>Wolters Kluwer Health</td> <td>2022</td> <td>9781975154127</td> </tr> </tbody> </table> <p>Recommended Textbooks/Reading:</p> <table border="1"> <thead> <tr> <th>Authors</th> <th>Title</th> <th>Edition</th> <th>Publisher</th> <th>Year</th> <th>ISBN</th> </tr> </thead> <tbody> <tr> <td>Dudek, Ronald W.</td> <td>High yield: gross anatomy</td> <td>5th Edition</td> <td>Lippincott Williams & Wilkins</td> <td>2014</td> <td>9781451190236</td> </tr> <tr> <td>Chung, K.W. , Chung, H. & Halliday, N.L.</td> <td>BRS Gross Anatomy</td> <td>9th Edition</td> <td>Lippincott Williams & Wilkins</td> <td>2019</td> <td>9781975120146</td> </tr> <tr> <td>A.R. Crossman</td> <td>Neuroanatomy: an illustrated colour text</td> <td>6th Edition</td> <td>Elsevier</td> <td>2019</td> <td>9780702074622</td> </tr> <tr> <td>Paul A. Young</td> <td>Basic Clinical Neuroscience</td> <td>3rd Edition</td> <td>Lippincott Williams & Wilkins</td> <td>2015</td> <td>9781451173291</td> </tr> </tbody> </table>	Authors	Title	Edition	Publisher	Year	ISBN	Arthur F. Dalley, Anne M. R. Agur	Moore's Clinically oriented anatomy	9 th Int'l Edition	Wolters Kluwer Health	2022	9781975154127	Authors	Title	Edition	Publisher	Year	ISBN	Dudek, Ronald W.	High yield: gross anatomy	5 th Edition	Lippincott Williams & Wilkins	2014	9781451190236	Chung, K.W. , Chung, H. & Halliday, N.L.	BRS Gross Anatomy	9 th Edition	Lippincott Williams & Wilkins	2019	9781975120146	A.R. Crossman	Neuroanatomy: an illustrated colour text	6 th Edition	Elsevier	2019	9780702074622	Paul A. Young	Basic Clinical Neuroscience	3 rd Edition	Lippincott Williams & Wilkins	2015	9781451173291
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Authors	Title	Edition	Publisher	Year	ISBN																																						
Dudek, Ronald W.	High yield: gross anatomy	5 th Edition	Lippincott Williams & Wilkins	2014	9781451190236																																						
Chung, K.W. , Chung, H. & Halliday, N.L.	BRS Gross Anatomy	9 th Edition	Lippincott Williams & Wilkins	2019	9781975120146																																						
A.R. Crossman	Neuroanatomy: an illustrated colour text	6 th Edition	Elsevier	2019	9780702074622																																						
Paul A. Young	Basic Clinical Neuroscience	3 rd Edition	Lippincott Williams & Wilkins	2015	9781451173291																																						
Assessment	For course MED-206 Anatomy II there will be a Formative Midterm Exam. The grade for the course will be contributed by the Anatomy Practical Exam (20%) and a Summative Final Exam (80%). Written exams consist of Single Best Answer MCQs (SBAs) and Short Answer Questions (SAQs).																																										
Language	English																																										