<table>
<tr><td>Course Title</td><td colspan="5">Pathology II</td></tr>
<tr><td>Course Code</td><td colspan="5">MED-309</td></tr>
<tr><td>Course Type</td><td colspan="5">Required</td></tr>
<tr><td>Level</td><td colspan="5">Undergraduate</td></tr>
<tr><td>Year / Semester</td><td colspan="5">Year 3/ Semester 6 (Spring)</td></tr>
<tr><td>Teacher’s Name</td><td colspan="5">Course Lead:
Prof Dimitrios Kanakis
Contributor:
Dr Danijela Antunovic</td></tr>
<tr><td>ECTS</td><td>6</td><td>Lectures / week</td><td>4</td><td>Laboratories / week</td><td>1</td></tr>
<tr><td>Course Purpose and Objectives</td><td colspan="5">The main objectives of the course are:
To deal systematically with the major disorders of gallbladder, biliary tract and exocrine pancreas.
To study the disorders associated with the various endocrine glands of the human body.
To describe the different renal and urinary system diseases.
To examine comprehensively the disorders of both the male and female reproductive systems, as well as the various mammary lesions.
To describe the several benign and neoplastic conditions of the skin and subcutaneous tissue.
To investigate the pathological processes of the central and peripheral nervous system.
To explore in depth the diverse disorders of the musculoskeletal system.</td></tr>
<tr><td>Learning Outcomes</td><td colspan="5">The following list provides the learning objectives that will be covered in the lectures, and tutorials of each week:
Week 1
Lobs covered during lectures:
1. Describe the various types of diabetes mellitus and its related complications.
2. Describe the different endocrine pancreatic tumours.
3. Describe the various congenital anomalies of the thyroid gland, and the different types of goiter.
4. Describe hyper- and hypothyroidism.</td></tr>
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5. Outline the various types of thyroiditis.
6. Describe the benign and malignant tumours of the thyroid gland.
7. Describe hyper-, hypo- and pseudo-hypoparathyroidism.
8. Describe the benign and malignant tumours of the parathyroid gland.

Week 2

Lobs covered during lectures:

9. Describe the various adrenal endocrine syndromes.
10. Describe the various forms of adrenal insufficiency.
11. Describe the benign and malignant tumours of the adrenal gland (cortex & medulla).
12. Describe the different diseases of the pituitary/hypothalamus.
13. Explain the types of Multiple Endocrine Neoplasia (MEN) syndromes.

Week 3

Lobs covered during lectures:

14. Describe the clinical manifestations of renal diseases.
15. Describe the mechanisms of glomerular injury and disease.
16. Describe the vascular disorders of the kidneys.
17. Discuss the various types of glomerular disorders.
18. Describe the different tubular interstitial diseases.
19. Describe the infectious disorders of the upper urinary tract.
20. Explain the metabolic and regulatory disorders of the kidneys.

Week 4

Lobs covered during lectures:

21. Describe the congenital disorders of the kidneys.
22. Describe the cystic diseases of the kidneys.
23. Explain urinary outflow obstruction (i.e. renal stones-urolithiasis, uronephrosis).
24. Describe the benign and malignant neoplasms of the kidneys.
25. Describe the infectious disorders of the lower urinary tract.
26. Describe the immunologic and inflammatory disorders of the lower urinary tract.
27. Describe the benign and malignant neoplasms of the lower urinary tract.

28. Describe the sexually transmitted diseases.

Week 5

Lobs covered during lectures:

29. Describe the congenital disorders of the male reproductive system (penis, scrotum -testis).
30. Outline the infectious and inflammatory disorders of the various organs of the male reproductive system (penis, testis-epididymis, prostate).
31. Describe the traumatic and mechanical disorders of testis (i.e. hydrocele, haematocele, chylocele, elephantiasis).
32. Explain the penile and testicular neoplasms.
33. Define benign prostatic hyperplasia.
34. Describe Prostatic Intraepithelial Neoplasia (PIN); low and high grade.
35. Describe prostate cancer.
36. Explain Gleason Grading System of prostate cancer.

Week 6

Lobs covered during lectures:

37. Describe the congenital disorders of the breast.
38. Describe the infectious, immunologic and inflammatory disorders of the breast.
39. Describe the benign and undefined neoplasms of the breast.
40. Describe DCIS and LCIS.
41. Describe the malignant neoplasms of the breast.
42. Explain the tumour grading of breast cancer.
43. Describe the congenital disorders of the female reproductive system.

Week 7

Lobs covered during lectures:

44. Describe the infectious, immunologic and inflammatory disorders of the different organs and structures of the female reproductive system (i.e. vulva, vagina, cervix, uterus, salpinx, ovary).
45. Describe the benign neoplasms and cysts of the different organs and structures of the female reproductive system (i.e. vulva, vagina, cervix,

uterus, salpinx, ovary).

46. Describe the precancerous and malignant lesions of the different organs and structures of the female reproductive system (i.e. vulva, vagina, cervix, uterus, salpinx, ovary).

46. Describe the group of pathological diseases/conditions associated with pregnancy.

Formative Midterm Exam

Week 8

Lobs covered during lectures:

48. Describe the congenital disorders of the skin and subcutaneous tissue.
49. Describe the infectious disorders of the skin and subcutaneous tissue.
50. Explain the immunologic and inflammatory disorders of the skin and subcutaneous tissue.
51. Describe the benign neoplasms, cysts and other skin lesions.
52. Discuss the malignant neoplasms of the skin and subcutaneous tissue.

Week 9

Lobs covered during lectures:

53. Describe oedema, herniation and hydrocephalus.
54. Describe the traumatic and mechanical disorders of the nervous system.
55. Describe the various cerebrovascular diseases.
56. Explain the congenital malformations of the nervous system.

Week 10

Lobs covered during lectures:

57. Describe the infectious, immunologic and inflammatory disorders of nervous system
58. Explain the most important prion diseases.
59. Describe the different primary diseases of myelin.
60. Describe the acquired metabolic and toxic disturbances of the nervous system.
61. Describe the various neurodegenerative diseases.

Week 11

Lobs covered during lectures:

	62. Describe the benign and malignant neoplasms of the central nervous system. 63. Describe the main disorders of the peripheral nerves. 64. Describe the disorders of the neuromuscular junction. 65. Outline the different types of peripheral nerve sheath tumours. 66. Describe the most important ocular disorders. **Week 12** ***Lobs covered during lectures:*** 67. Describe the congenital disorders of the musculoskeletal system. 68. Describe the infectious disorders of the musculoskeletal system. 69. Discuss the immunologic and inflammatory disorders of the musculoskeletal system. 70. Describe the degenerative and metabolic disorders of the musculoskeletal system. 71. Describe the benign neoplasms of the musculoskeletal system. 72. Describe the malignant neoplasms of the musculoskeletal system.		
Prerequisites	MED-304 Pathology I	Required	None
Course Content	• Endocrine System (Diseases of the endocrine pancreas, thyroid and parathyroid gland, adrenal gland and pituitary/hypothalamus, MEN) • Renal and Urinary System • Male Reproductive System • Female Reproductive System and Breast • Skin and Subcutaneous Tissue • Neuropathology and Sensory Organs • Musculoskeletal System		
Teaching Methodology	The course is delivered by lectures and laboratory practicals.		
Bibliography	**Required Textbooks/Reading:**		

Authors	**Title**	**Edition**	**Publisher**	**Year**	**ISBN**
Vinay Kumar, Abul K. Abbas, Jon C. Aster	Robbins Basic Pathology	10th Edition	Elsevier	2017	9780323353175

	E-book Permalink https://ebookcentral.proquest.com/lib/nicosia/detail.action?docID=5553745

Recommended Textbooks/Reading:

Authors	Title	Edition	Publisher	Year	ISBN
Vilnay Kumar, Abul K. Abbas, Jon C. Aster	Pathologic Basis of Disease	10th Edition	Elsevier	2020	9780323531139
Edward F Goljan	Rapid Review Pathology	5th Edition	Elsevier (Saunders)	2018	9780323476683
David S, Strayer and Emanuel Rubin	Rubin's Pathology: Clinico-pathologic Founda-tions of Medicine (Pathology (Rubin))	8th Edition	Wolters Kluwer	2019	9781975141028
Arthur S. Schneider and Philip A. Szanto	BRS Pathology	6th Edition	Wolters Kluwer	2020	9781975136628
Kaplan	USMLE Step 1 Lecture Notes 2022: Pathology		Kaplan	2022	9781506272962 (for set of all topics)
Hussain A. Sattar	Funda-mentals of Pathology: Medical Course and Step 1 Review	2019 Edition	Pathoma	2019	9780983224631
Edward Klatt, Vinay Kumar	Robbins and Cotran Review of Pathology	5th Edition	Elsevier	2021	9780323640220

Assessment	Formative Midterm Exam and Summative Final Exam. The Summative Final Exam will contribute towards 100% of the course grade. Assessment is by Single Best Answer MCQs (SBAs) and there may also be some Short Answer Questions (SAQs).

Language	English