

Modul designation	Genitourinary System
Semester in which the module is taught	4th Semester of Academic/Bachelor Stage
Person responsible for the module	<ol style="list-style-type: none"> 1. Mia Kusmiati, dr., M.Pd.Ked. PhD. 2. Ratna Dewi Indi Astuti, dr., M.Kes. 3. Widayanti, dr., M.Kes 4. Yuniarti, dr.,MKes. 5. Ajeng Kartika, dr.
Language	Bilingual (Indonesia & English)
Relation to curriculum	Compulsory
Teaching methods	<ul style="list-style-type: none"> - Lecture - Tutorial - Laboratory activity
Workload	<p>Total workload : 4 weeks</p> <p>Contact hours : Lecture 2 hours/week</p> <p style="padding-left: 40px;">Tutorial 3 hours/meeting (3 meeting/week)</p> <p style="padding-left: 40px;">Laboratory activity 3 hours/meeting</p>
Credit points	5 ECTS (4 SKS)
Required & recommended prerequisites for joining the module	Learning course at 1 st -3 rd semester
Module Objective	<p>At the end of course, students will be able to:</p> <ol style="list-style-type: none"> 1. Explain the embryology of the kidneys, bladder, urinary tract, and male reproductive organs. (C2) 2. Apply a description of the macrostructure of the kidneys, urinary tract, and male reproductive organs (topography, parts vascularisation innervation, and lymph nodes). (C3) 3. Apply the description of the structure of tissues and organs in the genitourinary system according to the principles of basic medical science in both normal and pathological conditions. (C3) 4. Explain the function of the kidneys, bladder, and urinary tract in general. (C2) 5. Describe the physiological processes of the kidneys, urine formation, and micturition. (C4)

	<ol style="list-style-type: none"> 6. Explain the function of male reproductive organs in general. (C2) 7. Describe the physiological processes of male reproduction (spermatogenesis, erection, emission and ejaculation). (C4) 8. Apply morphological descriptions, properties, virulence, and examination of microorganisms related to infections of the genitourinary system according to the rules of microbiology. (C3) 8. Apply morphological descriptions, characteristics, virulence, and examination of organisms related to infections of the genitourinary system according to the rules of parasitology. (C3) 9. Explain the definition, etiology, and classification of genitourinary disorders according to the rules of clinical medicine. (C2) 10. Analyze clinical manifestations based on the pathogenesis and pathophysiology of kidney disorders in accordance with the rules of clinical medicine. (C4) 11. Analyze clinical manifestations based on the pathogenesis and pathophysiology of urinary tract disorders in accordance with the rules of clinical medicine. (C4) 12. Analyze clinical manifestations based on the pathogenesis and pathophysiology of male reproductive organ disorders in accordance with the rules of clinical medicine. (C4) 13. Differentiate genitourinary malignant lesions according to the rules of basic medical science. (C4) 14. Apply biomedical science and clinical medicine to select supporting examinations and manage genitourinary disorders according to the problem. (C3) 15. Assess differential diagnosis, diagnosis, management, prognosis, complications, and education in genitourinary disorders based on the principles of clinical medicine and bioethics, humanities, and Islamic values. (C5, A4)
Content	<p>This Genitourinary System module discusses basic science, including embryology, anatomy, histology, and physiology of the kidneys, bladder, and urinary tract as well as male reproductive organs. This module will also discuss some of the most frequently encountered disorders that general practitioners must know about. The discussion of genitourinary disorders includes disease epidemiology, clinical manifestations, pathogenesis and pathophysiology, supporting examinations, principles of therapy, complications, and prognosis of each disorder.</p>
Examination forms	Multidisciplinary Examination (MDE), SOOCA, Lab exam

Study and examination requirements	System Pass Criteria : Minimum MDE, SOOCA and Lab exam score 55.5 (C)
Reading list	<ol style="list-style-type: none"> 1. Guyton & Hall, Textbook of Medical Physiology, 11th Edition 2. Walter F Boron, Emile L Boulpaep. Medical Physiology third edition. Elsevier 3. Lauralee Sherwood. Human Physiology From Cells to Systems Sixth Edition. Thomson Brooks/Cole 4. Eric P Widmaier, Hershel Raff, Kevin T Strang. Vander's Human Physiology The Mechanisms of Body Function. Mc Graw Hill 5. Constanzo L. Physiology sixth edition. Elsevier 6. Seeley's Physiology & Anatomy, 11th Edition 7. Moore Anatomy 8. Junqueira, Basic Histology 9. Helmut G. Renke, Renal Pathophysiology the essentials, Lippincott Williams & Wilkins 10. Wallen K. Lippincott Illustrated Review : Pharmacology. Wolters Kluwer. sixth edition 11. Harrison's Internal Medicine 12. Nelson's pediatric 13. Smith's Urology