



# COURSE CATALOGUE

## 2025-2026

# 1st semester

## DFGSM3 (3rd year)

### Bacteriology and antibiotics

Teacher: Dr ECKERT

Amount of time: 18h

Final exam: 1h

ECTS: 2

#### Lectures:

- Functional anatomy and bacterial genetics
- Antibiotics, classification and mechanisms of action
- Staphylococcus, Pneumococcus and Enterobacteriaceae
- Meningococcus and Group A Streptococcus
- Bacteria of sexually transmitted infections
- Role of the laboratory in diagnosing bacterial infections
- Bacteria of diarrhea
- Antibiotics, resistance mechanisms, current resistance problems

#### Seminars:

- Antibiotics, urinary tract infections
- ENT infections and meningitis
- Community respiratory infections and tuberculosis
- Bardet-Biedl syndrome diagnosis

## Parasitology

Teacher: Pr FEKKAR

Amount of time: 16h

Final exam: 1h

ECTS : 2

### **Lectures:**

- Introduction 1 Parasitology
- Introduction 2 Mycology

### **Seminars:**

- Parasitic infections and fungal infections
- Tropical parasitic infections and fungal infections
- Opportunistic parasitic infections and fungal infections
- Summary

# Virology

Teacher: Pr MORAND-JOUBERT

Amount of time: 11h

Final exam: 1h

ECTS : 2

## Lectures:

- Structure and classification of viruses / Viral multiplication and targets of antiviral chemotherapy
- Pathophysiology of viral infections and virological diagnosis
- Human Immunodeficiency Virus (HIV): structure, multiplication, pathophysiology, epidemiology, diagnosis, monitoring and therapeutic approach
- Rabies, enteroviruses
- Herpes viridae: general characteristics and pathophysiology / Alpha-herpes virinae: Herpes Simplex Virus (HSV), Varicella-Zoster Virus (VZV)
- Beta- and Gamma-herpes virinae: Cytomegalovirus (CMV), Epstein-Barr virus (EBV)
- Viral hepatitis viruses A, B, C, D and E (I)
- Viral hepatitis viruses A, B, C, D and E (II)
- Rubella, parvovirus B19, papillomavirus
- Gastroenteritis viruses (including digestive adenoviruses)
- Arbovirus

## Seminars:

- Herpes virus
- HIV infection
- Viral hepatitis
- Respiratory infections
- Viruses and pregnancy

## Cardiology

Teacher: Dr ZEITOUNI

Amount of time: 18h

Final exam: 1h

ECTS : 3

- Coronary heart disease - 3h
- Heart failure - 3h
- Electrocardiogram (ECG) and irregular heartbeat - 3h
- Non-coronary pain / Venous thromboembolic disease - 3h
- Valvulopathy and endocarditis - 3h
- Risk factors and hypertension, peripheral vascular disease and aortic dissection - 3h

## Pulmonology

Teacher: Pr MORELOT PANZINI

Amount of time: 18h

Final exam: 1h

ECTS : 3

- Asthma / Allergies / Cough / Respiratory Functional Exploration (RFE) - 3h
- Chronic Obstructive Pulmonary Disease (COPD) / Chronic respiratory failure / Tobacco / Bronchial cancer / Opacity tests - 3h
- Diffuse interstitial lung disease / Sarcoidosis / Autoimmune pathologies / Radiology - 3h
- Adult bronchopulmonary infections / Bronchiectasis / Foreign body / Tuberculosis / Cough/hemoptysis - 3h
- Pleural effusion / Pneumothorax / Chest pain - 3h
- Pulmonary Embolism (PE) / Pulmonary hypertension / Adult sleep disorders / Chest pain / Dyspnea - 3h

## **Dermatology**

Teacher: Dr CHASSET

Amount of time: 12h

Final exam: 1h

ECTS : 2

- Adult allergology - 2h
- Allergic dermatoses - 2h
- Inflammatory dermatoses - 2h
- Mucocutaneous manifestations of Sexually transmitted infections (STI) / Cutaneous tumors -2h
- Skin microvascularization abnormality, lupus - 2h
- Infections, ectoparasitic infections, pruritus - 2h

## Neurology

Teacher: Pr IDBAIH

Amount of time: 24h

Final exam: 1h

ECTS : 3

- Recent neurological deficit, motor and/or sensory deficit of limbs or face - 1h
- Gait, balance and vertigo disorders -1h
- Where is the lesion? (question and answer) - 1h
- Dementia and confusion - 1h
- Parkinson's disease and abnormal movements - 1h
- Multiple sclerosis - 1h
- Malaise, loss of consciousness, adults epileptic seizures - 1h
- Epilepsy - 1h
- Consciousness disorders, neurological complications of alcoholism - 1h
- Meningitis and meningo-encephalitis - 1h
- Stroke 1 - 1h
- Stroke 2 - 1h
- Acute and chronic headaches, migraines and facial algias - 1h
- Meningeal hemorrhage and head injury - 1h
- Neurological pathology - 1h
- Myasthenia and muscle disorders - 1h
- Guillain- Barré and peripheral neuropathies - 1h
- Intracranial tumors - 1h
- Spinal cord compression, cauda equina syndrome - 1h
- Neuroradiology 1 Transversal - 1h
- Neuroradiology 2 Transversal - 1h
- Neuropharmacology 1 - 1h
- Neuropharmacology 2 - 1h
- Neurotraining 1h



## Hepato-gastroenterology

Teacher: Dr VORON

Amount of time: 33h

Final exam: 1h

ECTS : 3

- Liver and bile duct: Abdominal pain, Viral hepatitis, Jaundice, Cholelithiasis - 3h
- Upper gastrointestinal tract: Gastroesophageal reflux disease (GERD), peptic ulcer, Dysphagia, Obesity, Stomach tumor, Esophagus tumor - 3h
- Liver: Liver tumor, Hepatomegaly abdominal mass, Cirrhosis, Ascites, Gastrointestinal bleeding, Primary liver tumor - 3h
- Colorectal: Inflammatory Bowel Diseases (IBD), Chronic diarrhea, Colorectal cancer, Secondary liver tumor, Gastrointestinal bleeding - 3h
- Pancreas: Chronic pancreatitis, Acute pancreatitis, Pancreas tumor, Multitrauma - 3h
- Colorectal: Acute diarrhea, Constipation, Functional colopathy, Diverticulosis, Parasitology - 3h
- Emergency: Abdominal pain, Vomiting, Hemorrhoidal pathology, Parietal hernia, Bowel obstruction, Appendicitis, Peritonitis - 3h
- Revision - 3h

## Infectious and transmissible diseases - health risks

Teacher: Dr SURGERS and Dr CALIN

Amount of time: 35h

Final exam: 1h

ECTS : 6

### Lectures:

- Fever, additional medical examinations - 2h
- Principles of vaccination: technique, indication, contraindication, arguments - 2h
- Travel - 2h
- Proper use of antibiotics - 2h

### Seminars:

- Neuro-meningeal infections
- STI prevention and care
- ENT infections, whooping cough, mumps, influenza
- Vaccination
- Prevention and care of HIV-AEB (accidental exposure to blood)
- Lung infections
- Tuberculosis
- Mucocutaneous infections
- Urinary tract infections
- Bacteremia - Endocarditis - Bone infections
- Traveller's diseases
- Gastrointestinal infections: hepatitis, diarrhea, abdominal infections
- 3-hour revision

## Handicap - dependance

Teacher: Pr BAYEN

Amount of time: 9h

Final exam: 1h

ECTS : 2

### **E-learning program (3 courses) + 3 lectures of 3h:**

- Adults and elderly people disability: the concept of handicap, functional and therapeutic assessment
- Main rehabilitation techniques - Fitness for sport
- Adults and elderly person micturition disorders and urinary incontinence
- Complex regional pain syndrome
- Childhood disability, referral and management
- Complications of decubitus
- Principles of rehabilitation for rheumatological and orthopedic disorders
- Main rehabilitation techniques and cognitive rehabilitation for neurological disorders
- Main rehabilitation techniques and neuromotor rehabilitation for neurological pathologies
- Perineal disability
- Hearing impairment
- Psychological disability

## Occupational health, legal medicine

Teacher: Dr PLU

Amount of time: 11h

Final exam: 1h

ECTS : 2

- Medical certificates, violence, sexual violence - 1h
- Occupational health - 3h
- Medical certificates, violence, sexual violence - 1h
- Patients' rights, medical liability - 2h
- Deaths, organ procurement legislation, concepts of expertise - 2h
- Sexual violence: feedback - 2h

## Emergency Medicine - Intensive care and Anesthesiology

Teacher: Pr VOIRIOT

Amount of time: 27h

Final exam: 1h

ECTS : 5

- Various infections (febrile coma, severe endocarditis, skin and soft tissue infections) - 3h
- Acute intoxications, Angioedema and Anaphylaxis - 3h
- Chest pain, Cardiogenic shock, Cardiac arrest - 3h
- Septic shock, severe infections and principles of antibiotic therapy - 3h
- General/Regional anesthesia, transfusion and hemovigilance, multitrauma and hemorrhagic shock, burned person - 3h
- Abdominal pain, Peritonitis and Pancreatitis, gastrointestinal bleeding - 3h
- Acute respiratory failure, Infectious Pneumonias, Hemoptysis, Pneumothorax - 3h
- Acute renal failure, Dysnatremia, acid-base balance disorder, Ketoacidosis - 3h
- Disorder of consciousness, seizure, meningeal hemorrhage , head injury and neurosurgical emergencies; severe stroke - 3h

## Rheumatology

Teacher: Dr COURTIES

Amount of time: 21h

Final exam: 1h

ECTS : 4

- Ankylosing spondylitis, Algodystrophy - 3h
- Spinal column / Infection and limbs pain - 3h
- Rheumatoid Arthritis (RA), Polymyalgia Rheumatic (PMR), Giant Cell Arteritis (GCA), carpal tunnel, connective tissue disease diagnostic approach - 3h
- Tumor pathology / Osteoporosis and rarefying osteopathies - 3h
- Inflammatory and peripheral joint diseases - 3h
- Bone diseases and drug and non-drug management in rheumatology - 3h
- Microcrystalline Arthritis / Arthrosis - 3h

## Orthopedics

Teacher: Dr CAMBON

Amount of time: 13h30

Final exam: 1h

ECTS : 3

- Pediatric orthopedics - 3h
- Adult orthopedics: upper limb - 3h
- Adult orthopedics: lower limb - 3h
- Adult orthopedics: spinal column - 3h
- Interactive revision - 1h30

## Gynecology-Obstetrics

Teacher: Dr GUILBAUD

Amount of time: 3 sessions of 3h + online courses (30h)

Final exam: 1h

ECTS : 5

- Uterine tumors (fibroma, endometrial cancer) / Cervical tumors (preneoplastic lesions, cervical cancer) / Ovarian tumors - 1h
- Prevention of fetal risks / Problems posed by genetic diseases - 1h
- Ectopic pregnancy / Feminine genital infection / Pelvic pain / Acute abdominal pain during pregnancy / Vaginal bleeding - 1h
- Normal pregnancy / Postpartum hemorrhage / Pregnancy and postpartum psychological disorders - 1h
- Fever during pregnancy / Voluntary termination of pregnancy / Gestational diabetes - 1h
- Couple's Infertility / Medically Assisted Reproduction (MAR) / Menstrual cycle abnormalities, Metrorrhagia / Contraception / Men and women menopause / Amenorrhea - 1h
- High blood pressure during pregnancy, pre-eclampsia, childbirth, delivery and normal post-partum / Pathological post-partum / Breastfeeding and complications - 1h
- Threat of premature delivery/ Prematurity and Intrauterine Growth Restriction (IUGR) - 1h
- Breast tumors - 1h



## Urology

Teacher: Pr DROUIN

Amount of time: 16h

Final exam: 1h

ECTS : 3

- Urology emergencies: infection, traumatology, lithiasis and scrotal pathologies - 4h
- Urological oncology (excluding prostate) - 4h
- Functional: incontinence, pelvic floor disorders, Erectile Dysfunction (ED), fertility disorders - 4h
- Prostate: Benign Prostatic Hyperplasia (BPH) / Cancer and Radiology in urology - 4h

## Nephrology

Teacher: Dr ESTEVE

Amount of time: 18h

Final exam: 1h

ECTS : 4

- Acute Kidney Injury (AKI), elevated creatinine level and hematuria - 1h30
- Kidney and pregnancy, acute vascular nephropathy - 1h30
- Chronic Kidney Disease and Diuretics - 1h30
- Hyponatraemia / Potassium abnormalities / Acid-base - 1h30
- Glomerular nephropathy / Proteinuria and nephrotic syndrome - 1h30
- Kidneys and medication, elderly person's kidney - 1h30
- Myeloma, Hypercalcemia, Diabetes - 1h30
- Lupus and Chronic Interstitial Nephritis - 1h30
- Hypertension and Chronic Vascular Nephropathy - 1h30
- Revisions - 1h30
- Urinary Lithiasis - 1h30
- Polycystic kidney disease and kidney transplantation - 1h30

## Psychiatry

Teacher: Pr FERRERI

Amount of time: 40h

Final exam: 1h

ECTS : 5

- Know the basics of the adult mental disorders classification
- Adult bipolar disorder
- Prescription and monitoring of psychotropic drugs (antidepressants and mood stabilizers)

2h

- Diagnose: depressive disorder
- Prescription and monitoring of psychotropic drugs (antidepressants and mood stabilizers)

2h

- Diagnose: post-traumatic stress disorder
- Prescription and monitoring of psychotropic drugs
- Different types of psychotherapeutic techniques

2h

- Diagnose: obsessive-compulsive disorder
- Prescription and monitoring of psychotropic drugs
- Different types of psychotherapeutic techniques

2h

- Psychiatric care without consent
- Persistent delusional disorder
- Agitation and acute delirium (dosage)

2h

- Adolescent and adult schizophrenia
- Prescription and monitoring of psychotropic drugs (antipsychotics)

2h

- Know the risk factors, prevention, screening for elderly persons' mental disorders
- Describe the organization of psychiatric care supply - elderly person
- Elderly person's mental disorders
- Prescription and monitoring of psychotropic drugs (hypnotic)
- Adult Sleep Disorder
- Normal and pathological bereavement

2h

- Know the risk factors, prevention, screening for children's mental disorders
- Describe the organization of psychiatric care supply - child

2h

- Acute anxiety attack and panic attack (dosage)
- Diagnosis: generalized anxiety disorder, panic disorder, phobias, adjustment disorder
- Different types of psychotherapeutic techniques
- Prescription and monitoring of psychotropic drugs (anxiolytics)

2h

- Somatic symptom disorder, at all ages
- Different types of psychotherapeutic techniques

2h

- Suicidal risk and conduct in children, adolescents and adults: identification and management

2h

- Pregnancy and postpartum psychological disorders
- Normal sexuality and its disorders
- Diagnosis: personality disorder

2h

- Addiction to tobacco
- Addiction to alcohol

2h

- Addiction to Cannabis
- Addiction to psychotropic drugs (benzodiazepines and related substances)
- Addiction to cocaine, amphetamines, opiates, synthetic drugs
- Behavioral addictions
- Doping

2h

- Know the basics of child mental disorder classifications
- Psychomotor development of the infant and the child
- Infant and child sleep disorders
- The disabled child: orientation and management
- Mental disability
- Pervasive development disorders

2h

- Know the risk factors, prevention, screening of children's mental disorders
- Know the basics of child mental disorder classifications
- Diagnose: generalized anxiety disorder, panic disorder, phobias, obsessive-compulsive disorder, post-traumatic stress disorder, adjustment disorder (child to elderly person), personality disorder
- Eating disorders in adolescents and adults
- Adolescent behavioral disorders

2h

- Know the risk factors, prevention, screening of children's mental disorders
- Know the basics of child mental disorder classifications
- Diagnose: generalized anxiety disorder, panic disorder, phobias, obsessive-compulsive disorder, post-traumatic stress disorder, adjustment disorder (child to elderly person), personality disorder
- Eating disorders in adolescents and adults
- Adolescent behavioral disorders

2h

- Adolescent bipolar disorder
  - Diagnosis of a bipolar disorder
  - Argue the therapeutic attitude and plan follow-up at all stages of the disease
- Diagnosis: depressive disorder
- Suicidal risk and conduct in children, adolescents

2h

## Pediatrics

Teacher: Pr GRIMPREL and Dr GUEDJ

Amount of time: 27h

Final exam: 1h

ECTS : 5

- Emergencies and nephrology - 3h
- Infectious and vaccinology - 3h
- Pulmonology and allergology - 3h
- Gastroenterology - 3h
- Neonatal and resuscitation - 3h
- Hematology and pain - 3h
- Visceral surgery and endocrinology - 3h
- Radiology and orthopedic surgery - 3h
- Neurology- 3h

## Internal Medicine

Teacher: Pr COHEN

Amount of time: 15h

Final exam: 1h

ECTS : 4

- Vasculitis - 1h
- Weight loss - 30min
- Biotherapies - 30min
- Purpura - 1h
- Inflammatory response - 1h
- Therapeutic Education - 30min
- Acrosyndromes - 1h
- Immunocompromised fever - 30min
- Prolonged fever - 1h
- Autoimmune diseases - 1h
- Corticosteroid therapy - 1h
- Lupus Antiphospholipid syndrome - 3h
- Splenomegaly – Adenopathy - 1h
- Sarcoidosis - 1h
- Immune deficiency - 1h



## Geriatrics

Teacher: Pr BODDAERT

Amount of time: 16h

Final exam: 1h

ECTS : 4

- Falls and walking disorders
- Legal protection
- Iatrogenesis
- Depression and psychotropic drugs
- Pain and analgesics
- Confusion
- Heart and heart failure, atrial fibrillation
- Anemia, transferrin
- Malaise, syncope
- Neurocognitive disorders
- Memory complaints
- Immobilization syndrome, prolonged decubitus and bedsores
- Nutrition, undernutrition, dysnatremia
- Hypercalcemia
- Incontinence
- Osteoporosis
- Diabetes
- Palliative care
- Dyspnea
- Transfusion / anti-coagulation

## Oncology

Teacher: Pr COHEN

Amount of time: 18h

Final exam: 1h

ECTS : 4

- Epidemiology, risk factors, prevention and screening for cancers
- Cancer: carcinogenesis, oncogenetics
- Diagnosis of cancers: warning signs and paraclinical investigations, stage characterization, prognosis
- Cancer treatment: surgery, radiotherapy, medical treatments (chemotherapy, targeted therapies, immunotherapy). Multidisciplinary therapeutic decision-making and patient information
- Care and support for cancer patients at all stages of the disease, including palliative care, addressing technical, relational, social and ethical issues. Supportive care. Monitoring methods.

2h

- Tumors of the oral cavity, nasosinus and cavum, upper aerodigestive tract
- Intracranial tumors

2h

- Prostate tumors
- Kidney tumors
- Testicular tumors
- Bladder tumors

2h

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- Cervical tumor, uterine body tumor
- Tumors of the ovary

2h

- Stomach tumor
- Tumors of the esophagus
- Pancreatic tumors

2h

- Colon and rectal tumors
- Primary and secondary liver tumors

2h

- Cutaneous, epithelial and melanoma tumors
- Primary and secondary bone tumors

2h

- Primary and secondary lung tumors

2h

- Breast tumors

2h

## Hematology

Teacher: Pr NGUYEN KHAC

Amount of time: 22h30

Final exam: 1h

ECTS : 4

- Hemolytic anemias - 2h
- Deficiency anemias - 2h
- Lymphoma and lymph nodes - 2h
- Myelodysplasia, acute leukemias, agranulocytosis - 2h
- Chronic lymphocytic leukemia (CLL), splenomegaly, mononucleosis - 2h
- Vaquez, thrombocythemia, Chronic Myelogenous Leukemia (CML), eosinophilia - 2h
- Thrombocytopenia / thrombocytopathy /primary hemostasis - 2h
- Blood transfusion - 2h30
- Myeloma, monoclonal gammopathy - 2h
- Coagulation disorders - 2h
- Antithrombotic therapy / Anticoagulant accidents - 2h

# 2nd semester

## DFGSM3 (3rd year)

### Anatomopathology

Teacher: Pr BUOB

Amount of time: 15h

Final exam: 1h

ECTS : 2

#### Lectures:

- Pathological anatomy: objectives and means
- Inflammatory pathology 1
- Inflammatory pathology 2
- Tumorous pathology 1
- Tumorous pathology 2
- Tumorous or pathology 3
- Vascular pathology

#### Seminars:

- Appendicitis, cirrhosis, tuberculosis, sarcoidosis
- Schistosomiasis, Amyloidosis, Thrombosis, recent and old myocardial infarction
- Revision - non-tumoral pathology
- Colon adenoma and adenocarcinoma, metastatic liver cancer, uterine leiomyoma and leiomyosarcoma
- Cervical cancer, invasive cervical carcinoma, lung cancer and brain metastasis
- Revision - tumor pathology

## Pharmacology

Teacher: Pr SALEM

Amount of time: 20h30

Final exam: 1h

ECTS : 2

- General pharmacology
- Antithrombotics
- Diabetic medication
- Contraceptives, treatment of menopause and sexual dysfunction
- Antihypertensive drugs and diuretics
- Steroidal and non-steroidal anti-inflammatory drugs
- Immunomodulators / Immunosuppressants
- Analgesics
- Antibiotics, antifungals and antiparasitics
- Psychotropic medications
- Antineoplastic
- Antiviral medication
- Hypolipidemic drugs

## Public Health and critical reading of articles

Teachers: Pr TUBACH and Pr DESCARTRES

Amount of time: 14h (18h of personal work)

Final exam: 2h

ECTS : 3

### **E-learning program:**

- Article writing / Publication process
- Measuring health status
- Quality - Risk management
- Scientific integrity / Key issues

### **Lectures program:**

- Medical ethics
- Healthcare associated infections, therapeutic hazard and error compensation
- Introduction to Critical Reading of Articles (CRA), different study types, regulatory aspects
- CRA: applied biostatistics and exercises 1/2
- CRA: case-control
- CRA: cohort
- CRA: therapeutic trials 1
- CRA: therapeutic trials 2
- CRA: diagnosis, screening
- CRA : applied biostatistics and exercises 2/2
- Evidence-based medicine, bibliographic research, systematic reviews and meta-analyses
- Scientific integrity: case study

## Ophthalmology

Teacher: Pr BOUHERAOUA

Amount of time: 12h

Final exam: 45 min

ECTS : 2

- Eye examination methods
- Refractive errors
- Cataract

2h

- Eyelid pathology
- Oculomotricity examination and diplopia
- Retrobulbar Neuritis, Anterior Ischemic Optic Neuropathy (AION)

2h

- Diabetic retinopathy
- Age-Related Macular Degeneration (AMD)
- Degradation of visual acuity

2h

- Red and/or painful eye
- Chronic glaucoma
- Infant monitoring: screening of visual disorders for children
- Strabismus

2h

- Sudden decrease of visual acuity
- Central Retinal Artery Occlusion and Branch Retinal Artery Occlusion
- Central Retinal Vein Occlusion

2h

- Eye trauma
- Burning Eyes
- Corneal sampling
- Corneal transplants

2h



## Maxillofacial surgery

Teacher: Pr SCHOUMAN

Amount of time: 12h

Final exam: 45 min

ECTS : 2

- Facial Anatomy - 2h
- Facial pain - 1h
- Infectious: Cellulitis - 1h30
- Salivary Gland Pathologies - 1h30
- Mandible - 1h30
- Facial Skeleton - 1h30
- Head and neck oncology - 1h30
- Bites and angiomas - 1h30

## ENT

Teacher: Pr NGUYEN

Amount of time: 12h

Final exam: 45 min

ECTS : 2

Children and adults' otalgias and otitis

Audiovestibular functional tests

2h

Children and adults' nasal-sinus infections.

Epistaxis (with treatment)

2h

Facial paralysis

Hearing impairment in adults

Temporal bone fracture

Vertigo (with treatment)

2h

Hearing impairment in children

Acute respiratory distress in infants and children. Foreign body in the upper respiratory tract

2h

Adult section: Acute respiratory distress in adults

Acute speech disorder. Dysphonia

Acute and chronic dyspnea.

Dysphagia

2h

Head and neck and oral cavity tumors

Superficial Lymphadenopathy

2h

## Neurology

Teacher: Pr IDBAIH

Amount of time: 24h

Final exam: 1h

ECTS : 3

- Recent neurological deficit, motor and/or sensory deficit of limbs or face - 1h
- Gait, balance and vertigo disorders -1h
- Where is the lesion? (question and answer) - 1h
- Dementia and confusion - 1h
- Parkinson's disease and abnormal movements - 1h
- Multiple sclerosis - 1h
- Malaise, loss of consciousness, adults epileptic seizures - 1h
- Epilepsy - 1h
- Consciousness disorders, neurological complications of alcoholism - 1h
- Meningitis and meningo-encephalitis - 1h
- Stroke 1 - 1h
- Stroke 2 - 1h
- Acute and chronic headaches, migraines and facial algias - 1h
- Meningeal hemorrhage and head injury - 1h
- Neurological pathology - 1h
- Myasthenia and muscle disorders - 1h
- Guillain- Barré and peripheral neuropathies - 1h
- Intracranial tumors - 1h
- Spinal cord compression, cauda equina syndrome - 1h
- Neuroradiology 1 Transversal - 1h
- Neuroradiology 2 Transversal - 1h
- Neuropharmacology 1 - 1h
- Neuropharmacology 2 - 1h
- Neurotraining 1h

## Hepato-gastroenterology

Teacher: Dr VORON

Amount of time: 33h

Final exam: 1h

ECTS : 3

- Liver and bile duct: Abdominal pain, Viral hepatitis, Jaundice, Cholelithiasis - 3h
- Upper gastrointestinal tract: Gastroesophageal reflux disease (GERD), peptic ulcer, Dysphagia, Obesity, Stomach tumor, Esophagus tumor - 3h
- Liver: Liver tumor, Hepatomegaly abdominal mass, Cirrhosis, Ascites, Gastrointestinal bleeding, Primary liver tumor - 3h
- Colorectal: Inflammatory Bowel Diseases (IBD), Chronic diarrhea, Colorectal cancer, Secondary liver tumor, Gastrointestinal bleeding - 3h
- Pancreas: Chronic pancreatitis, Acute pancreatitis, Pancreas tumor, Multitrauma - 3h
- Colorectal: Acute diarrhea, Constipation, Functional colopathy, Diverticulosis, Parasitology - 3h
- Emergency: Abdominal pain, Vomiting, Hemorrhoidal pathology, Parietal hernia, Bowel obstruction, Appendicitis, Peritonitis - 3h
- Revision - 3h

## Cardiology

Teacher: Dr ZEITOUNI

Amount of time: 18h

Final exam: 1h

ECTS : 3

- Coronary heart disease - 3h
- Heart failure - 3h
- Electrocardiogram (ECG) and irregular heartbeat - 3h
- Non-coronary pain / Venous thromboembolic disease - 3h
- Valvulopathy and endocarditis - 3h
- Risk factors and hypertension, peripheral vascular disease and aortic dissection - 3h

## Pulmonology

Teacher: Pr MORELOT PANZINI

Amount of time: 18h

Final exam: 1h

ECTS : 3

- Asthma / Allergies / Cough / Respiratory Functional Exploration (RFE) - 3h
- Chronic Obstructive Pulmonary Disease (COPD) / Chronic respiratory failure / Tobacco / Bronchial cancer / Opacity tests - 3h
- Diffuse interstitial lung disease / Sarcoidosis / Autoimmune pathologies / Radiology - 3h
- Adult bronchopulmonary infections / Bronchiectasis / Foreign body / Tuberculosis / Cough/hemoptysis - 3h
- Pleural effusion / Pneumothorax / Chest pain - 3h
- Pulmonary Embolism (PE) / Pulmonary hypertension / Adult sleep disorders / Chest pain / Dyspnea - 3h

## Dermatology

Teacher: Dr CHASSET

Amount of time: 12h

Final exam: 1h

ECTS : 2

- Adult allergology - 2h
- Allergic dermatoses - 2h
- Inflammatory dermatoses - 2h
- Mucocutaneous manifestations of Sexually transmitted infections (STI) / Cutaneous tumors -2h
- Skin microvascularization abnormality, lupus - 2h
- Infections, ectoparasitic infections, pruritus - 2h

## Pain

Teacher: Pr LAROCHE

Amount of time: 6h

Final exam: 30 min

ECTS : 1

- Acute and chronic pain
- Pain in children

## Palliative care

Teacher: Dr SERRESSE

Amount of time: 4h

Final exam: 30 min

ECTS : 1

## Genetics

Teacher: Pr MOCHEL and Dr BENUSIGLIO

Amount of time: 14h

Final exam: 45 min

ECTS : 2

- Unit "Pediatrics and cytogenetics"
- Unit "Adult and metabolic"



## Endocrinology - nutrition

Teacher: Pr ANDREELLI

Amount of time: 28h

Final exam: 1h

ECTS : 4

- Pituitary gland – 4h
- Endocrine hypertension and cardiovascular risk factors – 4h
- Diabetes 1 – 4h
- Obesity – 2h
- Nutrition and undernutrition – 2h
- Gonads – 4h
- Diabetes 2 – 4h
- Thyroid, parathyroid, nuclear medicine – 4h

## General Medicine

Teacher: Pr IBANEZ and Dr CHASTANG

Amount of time: 3h

Final exam: 1h

ECTS : 2

- Chronically ill patients
- Elderly people at home
- Children's health and care

## Emergency Medicine - Intensive care and Anesthesiology

Teacher: Pr VOIRIOT

Amount of time: 27h

Final exam: 1h

ECTS : 5

- Various infections (febrile coma, severe endocarditis, skin and soft tissue infections) - 3h
- Acute intoxications, Angioedema and Anaphylaxis - 3h
- Chest pain, Cardiogenic shock, Cardiac arrest - 3h
- Septic shock, severe infections and principles of antibiotic therapy - 3h
- General/Regional anesthesia, transfusion and hemovigilance, multitrauma and hemorrhagic shock, burned person - 3h
- Abdominal pain, Peritonitis and Pancreatitis, gastrointestinal bleeding - 3h
- Acute respiratory failure, Infectious Pneumonias, Hemoptysis, Pneumothorax - 3h
- Acute renal failure, Dysnatremia, acid-base balance disorder, Ketoacidosis - 3h
- Disorder of consciousness, seizure, meningeal hemorrhage , head injury and neurosurgical emergencies; severe stroke - 3h

## Rheumatology

Teacher: Dr COURTIES

Amount of time: 21h

Final exam: 1h

ECTS : 4

- Ankylosing spondylitis, Algodystrophy - 3h
- Spinal column / Infection and limbs pain - 3h
- Rheumatoid Arthritis (RA), Polymyalgia Rheumatic (PMR), Giant Cell Arteritis (GCA), carpal tunnel, connective tissue disease diagnostic approach - 3h
- Tumor pathology / Osteoporosis and rarefying osteopathies - 3h
- Inflammatory and peripheral joint diseases - 3h
- Bone diseases and drug and non-drug management in rheumatology - 3h
- Microcrystalline Arthritis / Arthrosis - 3h

## Orthopedics

Teacher: Dr CAMBON

Amount of time: 13h30

Final exam: 1h

ECTS : 3

- Pediatric orthopedics - 3h
- Adult orthopedics: upper limb - 3h
- Adult orthopedics: lower limb - 3h
- Adult orthopedics: spinal column - 3h
- Interactive revision - 1h30

## Gynecology-Obstetrics

Teacher: Dr GUILBAUD

Amount of time: 3 sessions of 3h + online courses (30h)

Final exam: 1h

ECTS : 5

- Uterine tumors (fibroma, endometrial cancer) / Cervical tumors (preneoplastic lesions, cervical cancer) / Ovarian tumors - 1h
- Prevention of fetal risks / Problems posed by genetic diseases - 1h
- Ectopic pregnancy / Feminine genital infection / Pelvic pain / Acute abdominal pain during pregnancy / Vaginal bleeding - 1h
- Normal pregnancy / Postpartum hemorrhage / Pregnancy and postpartum psychological disorders - 1h
- Fever during pregnancy / Voluntary termination of pregnancy / Gestational diabetes - 1h
- Couple's Infertility / Medically Assisted Reproduction (MAR) / Menstrual cycle abnormalities, Metrorrhagia / Contraception / Men and women menopauses / Amenorrhea - 1h
- High blood pressure during pregnancy, pre-eclampsia, childbirth, delivery and normal post-partum / Pathological post-partum / Breastfeeding and complications - 1h
- Threat of premature delivery/ Prematurity and Intrauterine Growth Restriction (IUGR) - 1h
- Breast tumors - 1h

## Urology

Teacher: Pr DROUIN

Amount of time: 16h

Final exam: 1h

ECTS : 3

- Urology emergencies: infection, traumatology, lithiasis and scrotal pathologies - 4h
- Urological oncology (excluding prostate) - 4h
- Functional: incontinence, pelvic floor disorders, Erectile Dysfunction (ED), fertility disorders - 4h
- Prostate: Benign Prostatic Hyperplasia (BPH) / Cancer and Radiology in urology - 4h

## Nephrology

Teacher: Dr ESTEVE

Amount of time: 18h

Final exam: 1h

ECTS : 4

- Acute Kidney Injury (AKI), elevated creatinine level and hematuria - 1h30
- Kidney and pregnancy, acute vascular nephropathy - 1h30
- Chronic Kidney Disease and Diuretics - 1h30
- Hyponatraemia / Potassium abnormalities / Acid-base - 1h30
- Glomerular nephropathy / Proteinuria and nephrotic syndrome - 1h30
- Kidneys and medication, elderly person's kidney - 1h30
- Myeloma, Hypercalcemia, Diabetes - 1h30
- Lupus and Chronic Interstitial Nephritis - 1h30
- Hypertension and Chronic Vascular Nephropathy - 1h30
- Revisions - 1h30
- Urinary Lithiasis - 1h30
- Polycystic kidney disease and kidney transplantation - 1h30