

UNIVERSITY OF ZAGREB SCHOOL OF MEDICINE

Plan of the course

Pathology

Academic year **2016/2017**

prof. dr. sc. Marina Kos

I. COURSE AIMS

At the end of the course the student will be able to describe the range of normal human structure and function as well as morphological and functional changes that form the basis of diseases encountered in clinical medicine, based upon current scientific understanding of human anatomy, physiology, genetics, immunology, biochemistry, behavioral science and other relevant disciplines.

II. COURSE STRUCTURE

Course hours:

Lectures: 54

Seminar: 57

Practicum: 104

Total hours: 215

Lectures (L): 54 x 45 min

Seminars (S): 57 x 45 min

Practicals (P): 104 x 45 min (including autopsy technique and laboratory methods in pathology)

Total: 215 h

III. PLAN OF THE COURSE AND COURSE SCHEDULE

BLOCKS OF THE COURSE

Number of blocks: 1

Block number	Start	End
1.	5.10.2016	14.6.2017

BLOCKS OF THE COURSE

Number of blocks: 1

Block number	Start	End
1.	5.10.2016	14.6.2017

BLOCKS OF THE COURSE SCHEME

Block 1

Date	Time	Group	Course hours type	Theme	Teaching staff
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Date	Time	Group	Course hours type	Theme	Teaching staff
Wednesday 5.10.2016.	08:30-10:00; PATOL Predavaonica		Lectures	Introductory lecture	prof. dr. sc. Marina Kos
Wednesday 12.10.2016.	08:30-10:00; PATOL Predavaonica		Lectures	Cellular adaptations and reversible injury	izv. prof. dr. sc. Slavko Gašparov
	10:00-11:30; PATOL Seminarska		Seminar	Mechanisms and morphology of cell injury, apoptosis, necrosis. Cellular accumulations	prof. dr. sc. Sven Seiwerth, izv. prof. dr. sc. Slavko Gašparov
	11:30-13:45; PATOL Mikroskopirnica		Practicum	1.Fatty change 2.Squamous metaplasia 3. Coagulative necrosis	prof. dr. sc. Sven Seiwerth, izv. prof. dr. sc. Slavko Gašparov
Wednesday 19.10.2016.	08:30-10:00; PATOL Predavaonica		Lectures	Cells and mediators of acute and chronic inflammation	prof. dr. sc. Marina Kos
	10:00-11:30; PATOL Seminarska		Seminar	Vascular and cellular events in acute inflammation, patterns of acute and chronic inflammation	Snježana Dotlić, dr. med., prof. dr. sc. Marina Kos
	11:30-13:45; PATOL Mikroskopirnica		Practicum	1.Acute inflammation 2.Chronic granulomatous inflammation (tuberculosis)	Snježana Dotlić, dr. med., prof. dr. sc. Marina Kos
Wednesday 26.10.2016.	08:30-09:15; PATOL Predavaonica		Lectures	Extracellular matrix and cell to cell interactions in regeneration and fibrosis	prof. dr. sc. Marina Kos
	09:15-10:00; PATOL Predavaonica		Lectures	General pathology of infectious diseases	prof. dr. sc. Marina Kos
	10:00-11:30; PATOL Seminarska		Seminar	Formation of granulation tissue, wound healing.	doc. dr. sc. Ljiljana Hlupić, prof. dr. sc. Marina Kos
	11:30-13:45; PATOL Mikroskopirnica		Practicum	1. Granulation tissue. Case reports	doc. dr. sc. Ljiljana Hlupić, prof. dr. sc. Marina Kos
Wednesday 2.11.2016.	08:30-10:00; PATOL Predavaonica		Lectures	Innate and adaptive immunity. Hypersensitivity diseases. Amyloidosis.	doc. dr. sc. Anita Škrtić
	10:00-11:30; PATOL Seminarska		Seminar	Autoimmune diseases. Immune deficiency diseases.	doc. dr. sc. Anita Škrtić, prof. dr. sc. Marina Kos
	11:30-13:45; PATOL Mikroskopirnica		Practicum	1.Fibrinoid necrosis (kidney) 2.Candidiasis (esophagus) 3.CMV pneumonia	doc. dr. sc. Anita Škrtić, prof. dr. sc. Marina Kos
Wednesday 9.11.2016.	08:30-10:00; PATOL Predavaonica		Lectures	Hemostasis, thrombosis and embolism.	doc. dr. sc. Gorana Aralica
	10:00-11:30; PATOL Seminarska		Seminar	Edema, congestion, infarction and shock.	Snježana Dotlić, dr. med., doc. dr. sc. Gorana Aralica
	11:30-13:45; PATOL Mikroskopirnica		Practicum	1.Edema (lung) 2.Red infarct (intestine) 3.White infarct (kidney)	Snježana Dotlić, dr. med., doc. dr. sc. Gorana Aralica
Wednesday 16.11.2016.	08:30-09:15; PATOL Predavaonica		Lectures	Nomenclature and classification of tumors	prof. dr. sc. Marina Kos
	09:15-10:45; PATOL Seminarska		Seminar	Morphology of benign and malignant tumors	prof. dr. sc. Marina Kos, dr. sc. Zlatko Marušić
	10:45-12:15; PATOL Mikroskopirnica		Practicum	1.Carcinoma in situ (CIS) – cervix uteri 2. Squamous cell carcinoma well differentiated 3.Adenocarcinoma - colon	prof. dr. sc. Marina Kos, dr. sc. Zlatko Marušić

Date	Time	Group	Course hours type	Theme	Teaching staff
Wednesday 23.11.2016.	08:30-09:15; PATOL Predavaonica		Lectures	Diagnostic methods	prof. dr. sc. Marina Kos
	09:15-10:45; PATOL Seminarska		Seminar	Carcinogens and carcinogenesis	prof. dr. sc. Marina Kos, dr. sc. Zlatko Marušić
	10:45-12:15; PATOL Mikroskopirnica		Practicum	Case reports	prof. dr. sc. Marina Kos, dr. sc. Zlatko Marušić
Wednesday 30.11.2016.	08:30-09:15; PATOL Predavaonica		Lectures	Prematurity	prof. dr. sc. Marina Kos
	09:15-10:00; PATOL Predavaonica		Lectures	Congenital and pediatric tumors	prof. dr. sc. Marina Kos
	10:00-11:30; PATOL Seminarska		Seminar	Congenital malformations, cytogenetic disorders, AD and AR diseases	doc. dr. sc. Ljiljana Hlupić, prof. dr. sc. Marina Kos
	11:30-13:45; PATOL Mikroskopirnica		Practicum	1.Hyaline membrane disease 2.Hemangioma 3.Neuroblastoma	doc. dr. sc. Ljiljana Hlupić, prof. dr. sc. Marina Kos
Wednesday 7.12.2016.	08:30-09:15; PATOL Predavaonica		Lectures	General mechanisms of toxicity. Environmental pollution	doc. dr. sc. Ljiljana Hlupić
	09:15-10:45; PATOL Seminarska		Seminar	Effects of tobacco, alcohol. Injury by therapeutic drugs and drugs of abuse, injury by physical agents, nutritional diseases	doc. dr. sc. Gorana Aralica, doc. dr. sc. Ljiljana Hlupić
	10:45-12:15; PATOL Mikroskopirnica		Practicum	1.Anthraxis (lymph node)	doc. dr. sc. Gorana Aralica, doc. dr. sc. Ljiljana Hlupić
Wednesday 14.12.2016.	08:30-12:15; KBM, Zavod za patologiju		Practicum	Autopsy technique and laboratory methods in pathology 1	doc. dr. sc. Anita Škrtić
	08:30-12:15; KBSM, Zavod za patologiju		Practicum	Autopsy technique and laboratory methods in pathology 1	prof. dr. sc. Marina Kos
	08:30-12:15; KBD, Zavod za patologiju		Practicum	Autopsy technique and laboratory methods in pathology 1	doc. dr. sc. Gorana Aralica
	08:30-12:15; KBC, Zavod za patologiju		Practicum	Autopsy technique and laboratory methods in pathology 1	doc. dr. sc. Ljiljana Hlupić
	08:30-12:15; PATOL Mikroskopirnica		Practicum	Autopsy technique and laboratory methods in pathology 1	prof. dr. sc. Sven Seiwert
Wednesday 11.1.2017.	08:30-10:00; PATOL Predavaonica		Lectures	Vasculitides.	izv. prof. dr. sc. Hrvoje Čupić
	10:00-11:30; PATOL Seminarska		Seminar	Atherosclerosis. Aneurysms and dissections. Pathology of lymphatic vessels. Tumors.	prof. dr. sc. Božo Krušlin, izv. prof. dr. sc. Hrvoje Čupić
	11:30-13:45; PATOL Mikroskopirnica		Practicum	1.Early atherosclerosis. Case report.	prof. dr. sc. Božo Krušlin, izv. prof. dr. sc. Hrvoje Čupić
Wednesday 18.1.2017.	08:30-10:00; PATOL Predavaonica		Lectures	Ischemic heart disease	prof. dr. sc. Božo Krušlin
	10:00-11:30; PATOL Seminarska		Seminar	Congenital heart defects. Pathology of endocardium, myocardium and pericardium	izv. prof. dr. sc. Hrvoje Čupić, prof. dr. sc. Božo Krušlin
	11:30-13:45; PATOL Mikroskopirnica		Practicum	1.Myocardial infarct 2.Myocarditis	izv. prof. dr. sc. Hrvoje Čupić, prof. dr. sc. Božo Krušlin

Date	Time	Group	Course hours type	Theme	Teaching staff
Wednesday 25.1.2017.	08:30-10:00; PATOL Predavaonica		Lectures	Red cell disorders. Non-neoplastic disorders of white cells	doc. dr. sc. Anita Škrtić
	10:00-11:30; PATOL Seminarska		Seminar	White cell disorders: Myeloid neoplams. Bleeding disorders. Spleen	Snježana Dotlić, dr. med., doc. dr. sc. Anita Škrtić
	11:30-13:45; PATOL Mikroskopirnica		Practicum	1.Follicular hyperplasia (lymph node). Case report	Snježana Dotlić, dr. med., doc. dr. sc. Anita Škrtić
Wednesday 1.2.2017.	08:30-10:00; PATOL Predavaonica		Lectures	White cell disorders: Lymphoid neoplasms- part I	Snježana Dotlić, dr. med.
	10:00-11:30; PATOL Seminarska		Seminar	Lymphoid neoplasms- part II. Histiocytic neoplasms. Thymus	doc. dr. sc. Anita Škrtić, Snježana Dotlić, dr. med.
	11:30-13:45; PATOL Mikroskopirnica		Practicum	1.Hodgkin lymphoma 2.Non Hodgkin lymphoma	doc. dr. sc. Anita Škrtić, Snježana Dotlić, dr. med.
Wednesday 8.2.2017.	08:30-10:00; PATOL Predavaonica		Lectures	Obstructive and restrictive lung diseases	dr. sc. Luka Brčić
	10:00-11:30; PATOL Seminarska		Seminar	Tumors of the lung and pleura	prof. dr. sc. Sven Seiwerth, dr. sc. Luka Brčić
	11:30-13:45; PATOL Mikroskopirnica		Practicum	1.Bronchial asthma 2.Squamous cell carcinoma (bronchus) 3.Small cell carcinoma (bronchus)	prof. dr. sc. Sven Seiwerth, dr. sc. Luka Brčić
Wednesday 15.2.2017.	08:30-12:15; KBD, Zavod za patologiju		Practicum	Autopsy technique and laboratory methods in pathology 2	doc. dr. sc. Gorana Aralica
	08:30-12:15; PATOL Mikroskopirnica		Practicum	Autopsy technique and laboratory methods in pathology 2	prof. dr. sc. Sven Seiwerth
	08:30-12:15; KBSM, Zavod za patologiju		Practicum	Autopsy technique and laboratory methods in pathology 2	prof. dr. sc. Marina Kos
	08:30-12:15; KBC, Zavod za patologiju		Practicum	Autopsy technique and laboratory methods in pathology 2	Snježana Dotlić, dr. med.
	08:30-12:15; KBM, Zavod za patologiju		Practicum	Autopsy technique and laboratory methods in pathology 2	doc. dr. sc. Anita Škrtić
Wednesday 22.2.2017.	08:30-10:00; PATOL Predavaonica		Lectures	Esophageal and gastric tumors	doc. dr. sc. Gorana Aralica
	10:00-11:30; PATOL Seminarska		Seminar	Inflammatory and other diseases of the upper GI tract	dr. sc. Zlatko Marušić, doc. dr. sc. Gorana Aralica
	11:30-13:45; PATOL Mikroskopirnica		Practicum	1.Chronic active gastritis (H.pylori) 2.Chronic peptic ulcer	dr. sc. Zlatko Marušić, doc. dr. sc. Gorana Aralica
Wednesday 1.3.2017.	08:30-10:00; PATOL Mikroskopirnica		Lectures	Tumors of the small and large intestine	doc. dr. sc. Gorana Aralica
	10:00-11:30; PATOL Seminarska		Seminar	Inflammatory and other diseases of the small and large intestine	dr. sc. Zlatko Marušić, doc. dr. sc. Gorana Aralica
	11:30-13:45; PATOL Mikroskopirnica		Practicum	1.Tubular adenoma 2.Colorectal adenocarcinoma	dr. sc. Zlatko Marušić, doc. dr. sc. Gorana Aralica
Wednesday 8.3.2017.	08:30-10:00; PATOL Predavaonica		Lectures	Clinical syndromes of liver failure; Infections and inflammatory disorders.	doc. dr. sc. Anita Škrtić

Date	Time	Group	Course hours type	Theme	Teaching staff
	10:00-11:30; PATOL Seminarska		Seminar	Liver diseases: alcohol- and drug-induced, metabolic and inherited, diseases of the intrahepatic biliary tract; Circulatory disorders; Tumors and hepatic nodules.	izv. prof. dr. sc. Slavko Gašparov, doc. dr. sc. Anita Škrtić
	11:30-13:45; PATOL Mikroskopirnica		Practicum	1.Chronic active hepatitis 2.Alcoholic cirrhosis 3.Hepatocellular carcinoma	izv. prof. dr. sc. Slavko Gašparov, doc. dr. sc. Anita Škrtić
Wednesday 15.3.2017.	08:30-10:00; PATOL Predavaonica		Lectures	Pathology of intra and extrahepatic biliary system	prof. dr. sc. Marina Kos
	10:00-11:30; PATOL Seminarska		Seminar	Pathology of the exocrine and endocrine pancreas	prof. dr. sc. Marina Kos, izv. prof. dr. sc. Slavko Gašparov
	11:30-13:45; PATOL Mikroskopirnica		Practicum	1. Acute hemorrhagic pancreatitis 2.Chronic cholecystitis	izv. prof. dr. sc. Slavko Gašparov, prof. dr. sc. Marina Kos
Wednesday 22.3.2017.	08:30-10:00; PATOL Predavaonica		Lectures	Pituitary gland pathology.	izv. prof. dr. sc. Hrvoje Čupić
	10:00-11:30; PATOL Seminarska		Seminar	Thyroid and adrenal gland pathology.	prof. dr. sc. Božo Krušlin, izv. prof. dr. sc. Hrvoje Čupić
	11:30-13:45; PATOL Mikroskopirnica		Practicum	1.Papillary carcinoma of the thyroid 2.Pheochromocytoma	prof. dr. sc. Božo Krušlin, izv. prof. dr. sc. Hrvoje Čupić
Wednesday 29.3.2017.	08:30-10:00; PATOL Predavaonica		Lectures	Carcinoma of the breast	Monika Ulamec, dr. med.
	10:00-11:30; PATOL Seminarska		Seminar	Pathology of the breast	Monika Ulamec, dr. med., prof. dr. sc. Marina Kos
	11:30-13:45; PATOL Mikroskopirnica		Practicum	1.Invasive ductal carcinoma 2.Fibroadenoma	prof. dr. sc. Marina Kos, Monika Ulamec, dr. med.
Wednesday 5.4.2017.	08:30-10:00; PATOL Predavaonica		Lectures	Pathology of cervix uteri	prof. dr. sc. Marina Kos
	10:00-11:30; PATOL Seminarska		Seminar	Pathology of the vulva, vagina, uterine corpus	prof. dr. sc. Marina Kos, doc. dr. sc. Ljiljana Hlupić
	11:30-13:45; PATOL Mikroskopirnica		Practicum	1.Carcinoma in situ (cervix) 2.Leiomyoma 3. Adenocarcinoma (endometrium). Case report.	prof. dr. sc. Marina Kos, doc. dr. sc. Ljiljana Hlupić
Wednesday 12.4.2017.	08:30-10:00; PATOL Predavaonica		Lectures	Pathology of pregnancy. Ectopic pregnancy. Gestational trophoblastic disease.	prof. dr. sc. Marina Kos
	10:00-11:30; PATOL Seminarska		Seminar	Pathology of the ovaries and Fallopian tube	prof. dr. sc. Marina Kos, doc. dr. sc. Ljiljana Hlupić
	11:30-13:45; PATOL Mikroskopirnica		Practicum	1.Serous adenocarcinoma (ovary) 2. Dermoid cystic teratoma (ovary) 3. Tubal pregnancy	prof. dr. sc. Marina Kos, doc. dr. sc. Ljiljana Hlupić
Wednesday 19.4.2017.	08:30-12:15; PATOL Muzej		Practicum	Autopsy technique and laboratory methods in pathology	prof. dr. sc. Sven Seiwerth
	08:30-12:15; KBC, Zavod za patologiju		Practicum	Autopsy technique and laboratory methods in pathology	doc. dr. sc. Ljiljana Hlupić
	08:30-12:15; KBM, Zavod za patologiju		Practicum	Autopsy technique and laboratory methods in pathology	doc. dr. sc. Anita Škrtić

Date	Time	Group	Course hours type	Theme	Teaching staff
	08:30-12:15; KBD, Zavod za patologiju		Practicum	Autopsy technique and laboratory methods in pathology	dr. sc. Danko Muller
	08:30-12:15; KBSM, Zavod za patologiju		Practicum	Autopsy technique and laboratory methods in pathology	Monika Ulamec, dr. med.
Wednesday 26.4.2017.	08:30-10:00; PATOL Predavaonica		Lectures	The kidney- nontumorous pathology (glomerular diseases, pathological changes of tubules, interstitium, blood vessels, cystic diseases)	Vanesa Bijol
	10:00-11:30; PATOL Seminarska		Seminar	The kidney- nontumorous pathology (glomerular diseases, pathological changes of tubules, interstitium, blood vessels, cystic diseases)	Vanesa Bijol
	11:30-13:45; PATOL Mikroskopirnica		Practicum	The kidney- nontumorous pathology (glomerular diseases, pathological changes of tubules, interstitium, blood vessels, cystic diseases)	Vanesa Bijol
Wednesday 3.5.2017.	08:30-09:15; PATOL Predavaonica		Lectures	Tumors of the kidney	prof. dr. sc. Božo Krušlin
	09:15-10:45; PATOL Seminarska		Seminar	Pathology of the male genital system	izv. prof. dr. sc. Danica Galešić Ljubanović, prof. dr. sc. Božo Krušlin
	10:45-13:00; PATOL Mikroskopirnica		Practicum	1.Renal cell carcinoma (kidney) 2.Seminoma 3.Adenocarcinoma of the prostate	izv. prof. dr. sc. Danica Galešić Ljubanović, prof. dr. sc. Božo Krušlin
Wednesday 10.5.2017.	08:30-10:00; PATOL Predavaonica		Lectures	Bone tumors	prof. dr. sc. Sven Seiwert
	10:00-11:30; PATOL Seminarska		Seminar	Pathology of bones and joints.	prof. dr. sc. Sven Seiwert, Snježana Dotlić, dr. med.
	11:30-13:45; PATOL Mikroskopirnica		Practicum	1. Osteochondroma 2. Osteosarcoma Case report	prof. dr. sc. Sven Seiwert, Snježana Dotlić, dr. med.
Wednesday 17.5.2017.	08:30-10:00; PATOL Predavaonica		Lectures	Melanocytic skin tumors. Soft tissue tumors.	Snježana Dotlić, dr. med.
	10:00-11:30; PATOL Seminarska		Seminar	Non-melanocytic skin tumors. Non-tumorous skin pathology.	Snježana Dotlić, dr. med., izv. prof. dr. sc. Hrvoje Čupić
	11:30-14:15; PATOL Mikroskopirnica		Practicum	1. Melanoma 2. Psoriasis Case report.	Snježana Dotlić, dr. med., izv. prof. dr. sc. Hrvoje Čupić
Wednesday 24.5.2017.	08:30-10:00; PATOL Predavaonica		Lectures	Cerebral edema, hydrocephalus and hemodynamic disorders	Snježana Dotlić, dr. med.
	10:00-11:30; PATOL Seminarska		Seminar	Congenital anomalies and CNS infections	Snježana Dotlić, dr. med., dr. sc. Danko Muller
	11:30-13:45; PATOL Mikroskopirnica		Practicum	1.Acute purulent meningitis. Case report.	Snježana Dotlić, dr. med., dr. sc. Danko Muller
Wednesday 31.5.2017.	08:30-10:00; PATOL Predavaonica		Lectures	Nervous system tumors	Snježana Dotlić, dr. med.
	10:00-11:45; PATOL Seminarska		Seminar	Degenerative diseases of the nervous system	dr. sc. Danko Muller, Snježana Dotlić, dr. med.

Date	Time	Group	Course hours type	Theme	Teaching staff
	11:45-14:00; PATOL Mikroskopirnica		Practicum	1.Glioblastoma multiforme 2.Meningioma	Snježana Dotlić, dr. med., dr. sc. Danko Muller
Wednesday 7.6.2017.	08:30-12:15; PATOL Muzej		Practicum	Autopsy technique and laboratory methods in pathology	prof. dr. sc. Sven Seiwert
	08:30-12:15; KBM, Zavod za patologiju		Practicum	Autopsy technique and laboratory methods in pathology	doc. dr. sc. Anita Škrtić
	08:30-12:15; KBD, Zavod za patologiju		Practicum	Autopsy technique and laboratory methods in pathology	dr. sc. Danko Muller
	08:30-12:15; KBSM, Zavod za patologiju		Practicum	Autopsy technique and laboratory methods in pathology	Monika Ulamec, dr. med.
	08:30-12:15; KBC, Zavod za patologiju		Practicum	Autopsy technique and laboratory methods in pathology	Stela Bulimbašić, dr. med.
Wednesday 14.6.2017.	08:30-09:30; PATOL Predavaonica	SVI	Exam	FINAL EXAM	prof. dr. sc. Marina Kos
Wednesday 28.6.2017.	08:30-09:30; PATOL Predavaonica	SVI	Exam	FINAL EXAM	prof. dr. sc. Marina Kos
Friday 7.7.2017.	08:30-09:30; PATOL Seminarska	SVI	Exam	FINAL EXAM	prof. dr. sc. Marina Kos
Friday 1.9.2017.	08:30-09:30; PATOL Seminarska	SVI	Exam	FINAL EXAM	prof. dr. sc. Marina Kos
Wednesday 13.9.2017.	08:30-09:30; PATOL Seminarska	SVI	Exam	FINAL EXAM	prof. dr. sc. Marina Kos

Lectures will take place at the Institute of Pathology, Šalata. On the first day meeting is at the 1st floor in front of the Seminarska dvorana (Seminar Hall). They begin at 8:30 A.M.

Practicals in Autopsy technique and laboratory methods in pathology will take place at:

Institute of Pathology, Šalata

Clinical Department of Pathology „Ljudevit Jurak“, Clinical Hospital Center „Sestre milosrdnice“, Vinogradska 29

Department of Pathology Clinical Hospital Center (KBC) „Rebro“, Kišpatićeva 12

Department of Pathology, Clinical Hospital „Merkur“, Zajčeva 19

Department of Pathology Clinical Hospital „Dubrava“, Avenija Gojka Šuška 6

IV. EXAMINATIONS

Types of examination and examination dates

1. At the end of every unit (topic) a test of usually 20 multiple choice questions will be organized. The test is not mandatory but if the student participates to, at least 70% of the quizzes (with the satisfactory result), in case he/she passes the final exam **at the first attempt**, the grade can be heightened for ONE grade at the most.

To pass, the student will have to answer correctly to at least 70% of the questions in the quiz. The result of the test is pass/fail.

2. The exams consists of 2 parts:

Part I – colloquium in GENERAL PATHOLOGY (prijava not needed)

After the end of lessons concerning general pathology, a written exam will be organized, containing 100 multiple choice questions, including 20 questions with the pictures - 10 questions of gross pathologic changes and 10 questions with microphotographs. To pass, except for passing the threshold, has to answer correctly to, at least 60% of the questions with the pictures.

The colloquium will be repeated as necessary.

Part II – FINAL EXAM (Organ system pathology): In the summer term the exam in organ system pathology will be organized, containing 150 questions with 15 pictures of gross pathologic changes and 15 microphotographs. To pass, except for passing the threshold, has to answer correctly to, at least 60% of the questions with the pictures.

To take the final exam the student

- is allowed
 - 1 absence from GENERAL PATHOLOGY (from one topic – lecture, seminar and practical),
 - 1 absence from ORGAN SYSTEM PATHOLOGY and
 - 1 absence from ONE PRACTICAL IN AUTOPSY TECHNIQUE.
- **In case of 2 or 3 absences**, the student has to pass oral colloquium of ALL MISSED TOPICS with the lecturer(s) of the topics
- **In case of more than 3 absences**, the student has to submit the written explanation with document(s) proving the reason for absences (from the doctor, the embassy etc...). The explanation will be discussed by the board of professors and if the explanation is valid, he/she will be permitted to take the oral colloquiums of all missed topics with the lecturers of the topics

The final grade is the sum of grades of part I and part II divided by 2. For the students that have participated to (and passed) to at least 70% of the quizzes, the final grade will be heightened for 1 grade.

Preterm 20.6.2016

Regular terms

6.7.2016

15.7.2016

5.9.2016

14.9.2016

V./I. LIST OF LECTURERS AND TEACHING STAFF

1. prof. dr. sc. Sven Seiwerth

2. prof. dr. sc. Marina Kos
3. prof. dr. sc. Božo Krušlin
4. izv. prof. dr. sc. Danica Galešić Ljubanović
5. doc. dr. sc. Gorana Aralica
6. izv. prof. dr. sc. Slavko Gašparov

V./II EXTERNAL ASSOCIATES:

1. dr. sc. Luka Brčić
2. dr. sc. Zlatko Marušić
3. dr. sc. Danko Muller
4. Vanesa Bijol
5. Gordana Jurić Sekhar
6. Iva Brčić

V./III UNTENURED LECTURERS:

1. Monika Ulamec, dr. med.
2. izv. prof. dr. sc. Hrvoje Čupić
3. doc. dr. sc. Ljiljana Hlupić
4. doc. dr. sc. Anita Škrtić
5. Snježana Dotlić, dr. med.
6. Stela Bulimbašić, dr. med.

VI. LITERATURE

A. Mandatory

01. Kumar, Abbas, Aster. Robbin's Basic Pathology, 9th.ed. Elsevier, 2012.
02. Klatt E. Robbins and Cotran Atlas of Pathology, WB Saunders Co. 2006.
03. The CD (KUMC) students will receive at the beginning of the course

B. Additional

01. Mitchell. Kumar, Abbas, Fausto. Pocket companion to Pathologic basis of disease, 7.ed.2006.
02. Danjanov I. Pathology secrets, 2nd ed. Elsevier Mosby, 2005.