

Pathology I-II.

Curriculum

2022/2023

Semmelweis University

Faculty of Medicine

Department of Pathology and Experimental Cancer Research

Budapest, 2022

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1st SEMESTER - 2022

1st SEMESTER - 2022		
	LECTURES	HISTOPATHOLOGY and PREPARATION
Week 1	<ul style="list-style-type: none"> The place and role of Pathology in the Medicine. Structure of pathology and methods Definition of Death, Signs of Death, Necrosis and Apoptosis. 	Practice 1- Introduction <ul style="list-style-type: none"> Safety rules Digital teaching system Teleconsultation E-school
Week 2	<ul style="list-style-type: none"> Examples of Necrosis. Myocardial Infarction. Reversible Cell Injury 	Practice 2- Necrosis 1. Histology: <ul style="list-style-type: none"> Anemic infarction, kidney Infarctus haemorrhagicus pulmonis Acute myocardial infarction Reperfusion injury Chronic myocardial infarction Cerebral infarct Preparation: <ul style="list-style-type: none"> Infarctus anaemicus renis Ruptura cordis, haemopericardium Infarctus recurrens myocardii Gangraena humida antebrachii Infarctus obsoletus myocardii et aneurysma cordis Encephalomalacia alba et encephalomalacia rubra
Week 3	<ul style="list-style-type: none"> Lipid accumulation, Atherosclerosis, Protein accumulation, Amyloidosis. Cellular adaptations: Hypertrophy, Hyperplasia, Atrophy, Metaplasia 	Practice 3- Necrosis 2. Histology: <ul style="list-style-type: none"> Liponecrosis pancreatis Lymphadenitis tuberculosa Apoptosis Preparation: <ul style="list-style-type: none"> Liponecrosis pancreatis Caseatio tuberculosa lympholandelae Necrosis in centro tumoris
Week 4	<ul style="list-style-type: none"> Endogeneous and Exogeneous Pigments, Calcification, Lithiasis Hemorrhage 	Practice 4- Accumulation Histology: <ul style="list-style-type: none"> Steatosis hepatis alcoholica (HE) Atheromatosis arteriae (HE) Infiltratio adiposa myocardii (HE) Amyloidosis renis (Congo Red) IRDS (PAS) Preparation: <ul style="list-style-type: none"> Steatosis diffusa hepatis Atheromatosis aortae Amyloidosis lienis et renis
Week 5	<ul style="list-style-type: none"> Thrombosis, Embolism, DIC Stagnation, oedema, shock 	Practice 5- Adaptation Histology: <ul style="list-style-type: none"> Hypertrophica myocardii, CIHD Hyperplasia glandulae suprarenalis Bronchus, squamous metaplasia (HE) Microcalcification, DCIS (HE) Preparation: <ul style="list-style-type: none"> Cholelithiasis – Gallbladder stones Hypertrophica ventriculi sinistri cordis Hypertrophica ventriculi dextri cordis

Week 6	<ul style="list-style-type: none"> Acute Inflammation Chronic Inflammation and Tissue Repair: Regeneration, Healing, and Fibrosis 	Practice 6 - Circulation 1. Histology: <ul style="list-style-type: none"> Oedema pulmonis (HE) Induratio brunea pulmonis (Prussian blue) Hepar moschatum adiposum (HE) Thrombosis arteriae femoralis (HE) Preparation: <ul style="list-style-type: none"> Thrombosis venae Thrombosis arteriae Thrombus muralis laminata in aneurysma aortae Thromboembolia trunci brachiocephalici
Week 7	<ul style="list-style-type: none"> New technologies in molecular diagnostic - Numerical and Structural abnormalities of the Chromosomes. Mutations and Clinical manifestations. Pediatric Diseases 	Practice 7 - Circulation 2. Histology: <ul style="list-style-type: none"> DIC (fibrin staining) Embolia lipomatosa (Oil-red) Preparation: <ul style="list-style-type: none"> Erosiones mucosae ventriculi Haemorrhagia subarachnoidealis Apoplexia glandulae suprarenalis
Week 8	<ul style="list-style-type: none"> Mechanisms of Immune-Mediated Injury Immune deficiency Diseases. Rejection of Transplants 	Practice 8 - Acute inflammation Histology: <ul style="list-style-type: none"> Pericarditis fibrinosa Bronchopneumonia Appendicitis acuta ulcerophlegmonosa Pneumonia lobaris Preparation: <ul style="list-style-type: none"> Pericarditis fibrinosopurulenta Pneumonia lobaris
Week 9	<ul style="list-style-type: none"> All Saints Day Autoimmune Disease 	Practice 9 - Chronic Inflammation Histology: <ul style="list-style-type: none"> Myocarditis rheumatica (HE) Tuberculosis pulmonis (HE) Tuberculosis pulmonis (ZN) Granuloma corporis alienis (HE) Granulation tissue (HE) Sarcoidosis (HE) Preparation: Tuberculosis pulmonis
Week 10	<ul style="list-style-type: none"> Pathological consequences of infectious diseases, sepsis, AIDS Characteristics of Benign and Malignant Neoplasms 	Practice 10 - Immunology Histology: <ul style="list-style-type: none"> Polypus nasi (HE) Asthma bronchiale (PAS) Acute rejection (HE) Lupus nephritis (PAS) Scleroderma (HE)
Week 11	<ul style="list-style-type: none"> Carcinogenesis, Etiology of Neoplasia Prevention, Diagnosis and Treatment of Cancer 	Practice 11 - Oncology 1. Histology: <ul style="list-style-type: none"> Squamous cell metaplasia, cervix HPV infection_condyloma_LSIL HSIL_CIN3 Invasive carcinoma, cervix Papilloma laryngis (HE) Carcinoma basocellulare (HE) Carcinoma planocellulare cutis (HE) Polypus adenomatosus coli (HE) Adenocarcinoma coli (HE) Preparation: <ul style="list-style-type: none"> Papilloma laryngis Polypus intestini crassi Haemangioma hepatis

Week 12	<ul style="list-style-type: none"> • Ability to Invade and Metastasize • Preneoplastic Disorders 	Practice 12 - Oncology 2. Histology: <ul style="list-style-type: none"> • Leiomyoma • Leiomyosarcoma • Osteosarcoma • Wilms tumor • Neuroblastoma (HE) • Teratoma adultum (HE) • Metastasis carcinomatosa lymphnodi (HE) • Metastasis carcinomatosa hepatis Preparation: <ul style="list-style-type: none"> • Cysta dermoides • Lymphangiosis carcinomatosa pulmonis • Melanoma malignum cutis • Metastasis carcinomatosa cerebri, melanoma • Metastasis carcinomatosa vertebrarum • Metastasis lymphoglandularum melanomatis • Osteosarcoma manus
Week 13	<ul style="list-style-type: none"> • Effects of Tobacco. Injury by Drugs and Drugs of Abuse. Effect of alcohol. Obesity • Anomalies of cardiac development, IHD 	Practice 13 - Cardiology 1. Histology: <ul style="list-style-type: none"> • Arteriolosclerosis • Atherosclerotic plaque_calcified • Atherosclerotic plaque_atheromatous • Acute myocardial infarction • Chronic myocardial infarction Preparation: <ul style="list-style-type: none"> • Fallot tetralogy • Defectus septi atrii (ASD) • Defectus septi ventriculi (VSD) • Cardiomyopathia dilatativa (DCM) • Cardiomyopathia hypertrophica (HOCM)
Week 14	<ul style="list-style-type: none"> • Diseases of endocardium, myocardium, pericardium • Vascular pathology 	Practice 14 - Cardiology 2. Histology: <ul style="list-style-type: none"> • Infective endocarditis • Viral myocarditis (HE) • Arteritis temporalis (HE) • Kaposi sarcoma (HE) Preparation: <ul style="list-style-type: none"> • Vitium aortae • Dissectio coronariae • Thrombosis globuli in atrio sinistri cordis

2nd Semester - 2023

Week 1	<ul style="list-style-type: none"> • Methods of hematology diagnostics. Classification of Anemia • Diseases of the Myeloid system 	Practice 1 - Hematology 1. Histology <ul style="list-style-type: none"> • Megaloblastic erythroid hyperplasia (MGG) • AML- pb (MGG) • AML- pb (MPO) • CML accelerated phase (MGG) • Myelofibrosis (HE) • Myelofibrosis (reticulin)
Week 2	<ul style="list-style-type: none"> • Diseases of the Lymphoid system • Clinicopathology 	Practice 2- Hematology 2. Histology: <ul style="list-style-type: none"> • Follicularis hyperplasia (HE) • Follicularis lymphoma grade 1 (HE) • Follicularis lymphoma (BCL-2) • CLL - pb (MGG) • Diffuse large B-cell lymphoma (HE, CD20) • Myeloma multiplex, bm (MGG) • Hodgkin-lymphoma NS (HE) • Non-Hodgkin lymphoma (extranodal) • CLL-1 • CLL-2 Preparation: <ul style="list-style-type: none"> • Hodgkin lymphoma- Cervical lymph nodes • Myeloma multiplex, - Ribs • Nodularis lymphoid spleen infiltration - (Porphy spleen)
Week 3	<ul style="list-style-type: none"> • Lesions of the upper respiratory tract. Pulmonary infections • Obstructive and Restrictive pulmonary diseases. • Lung tumors. Pleural lesions. 	Practice 3 - Pulmonology Histology: <ul style="list-style-type: none"> • Aspergillosis (HE, Grocott) • Pneumocystis pneumonia (HE, Grocott) • Cystic fibrosis • Adenocarcinoma pulmonis • Carcinoma microcellulare pulmonis • Mesothelioma Preparation: <ul style="list-style-type: none"> • Emphysema pulmonis et emphysema bullosum pulmonum • Haemorrhagic pneumonia caused by H1N1 influenza • Neoplasma malignum peripheriale pulmonis
Week 4	<ul style="list-style-type: none"> • Pathology of the oral cavity, salivary gland, oesophagus, stomach and small intestine 	Practice 4 - Gastrointestinal pathology 1. Histology: <ul style="list-style-type: none"> • GIST (HE, CD117) • Gastritis (HE, Giemsa) • Ulcus pepticum ventriculi • Adenocarcinoma ventriculi (diffuse type) Preparation: <ul style="list-style-type: none"> • Adenocarcinoma ventriculi et metastasis carcinomatosa hepatis • GIST • Ulcus duodeni • Ulcus ventriculi

		<ul style="list-style-type: none"> • Varicositas oesophagii
Week 5	<ul style="list-style-type: none"> • Pathology of the large intestine and the peritoneum • Pathology of the pancreas. Diabetes mellitus 	<p>Practice 4 - Gastrointestinal pathology 2.</p> <p>Histology:</p> <ul style="list-style-type: none"> • Parotis pleomorph adenoma • Celiac disease • Ulcerative colitis - biopsy • Ulcerative colitis - specimen • Crohn colitis <p>Preparation:</p> <ul style="list-style-type: none"> • Colitis ulcerosa • Diverticulosis et polyposis sigmae • Diverticulum perforatum sigmae
Week 6	<ul style="list-style-type: none"> • Jaundice and cholestasis Alcohol- drug-induced, metabolic and inherited liver diseases. • Infectious and inflammatory disorders. Hepatic failure. Liver cirrhosis. Tumors of liver. • Disorders of the gallbladder and biliary tract 	<p>Practice 6 - Hepatology, pancreas</p> <p>Histology:</p> <ul style="list-style-type: none"> • Pancreatitis chronica • Carcinoma pancreatis • Cholecystitis chronica • Hepatitis chronica - HCV • HBV-hepatitis • Cirrhosis hepatis (HE, Picro) • Carcinoma hepatocellulare <p>Preparation:</p> <ul style="list-style-type: none"> • Adenocarcinoma pancreatis capitis et metastasis carcinomatosa hepatis • Hepar polycysticum • Pancreatitis acuta
Week 7	<ul style="list-style-type: none"> • Malformations. Clinical manifestations of renal disease. Glomerular diseases • Diseases affecting tubules and interstitium. Diseases involving blood vessels 	<p>Practice 7- Nephrology</p> <p>Histology:</p> <ul style="list-style-type: none"> • RPGN • Nephropathia diabetica (PAS) • End-stage-kidney (HE, picrosirius) • Carcinoma renis (HE) • Carcinoma transitiocellulare <p>Preparation:</p> <ul style="list-style-type: none"> • Carcinoma renis • Cysta simplex renis • Pyelonephritis chronica • Ren soleiformis - trisomia 18 • Urocystitis acuta haemorrhagica
Week 8	<ul style="list-style-type: none"> • Urinary outflow obstruction. Renal tumors. Pathology of the urinary bladder • Pathology of the male genital tract 	<p>Practice 8 - Male genital organs and gravidity</p> <p>Histology:</p> <ul style="list-style-type: none"> • Seminoma • Embryonal carcinoma • Teratoma adultum (HE) • Nodular hyperplasia, prostate • Adenocarcinoma prostatae • Extrauterine gravidity <p>Preparation:</p> <ul style="list-style-type: none"> • Gravidity extrauterina • Mola hydatidosa • Penis carcinoma • Real knot in umbilicus

Week 9	<ul style="list-style-type: none"> • Pathology of the female genital tract 	<p>Practice 9 - Female genital organs</p> <p>Histology:</p> <ul style="list-style-type: none"> • Carcinoma planocellulare cervicis uteri • Teratoma maturum cysticum/cysta dermoides ovarii • Serosus carcinoma, High grade (cystadenocarcinoma ovarii) • Hyperplasia simplex • Endometrioid endometrium carcinoma • Ovarian follicular cyst <p>Preparation:</p> <ul style="list-style-type: none"> • Carcinoma endometrii • Cystadenocarcinoma ovarii • Endometriosis ovarii
Week 10	<ul style="list-style-type: none"> • Pathology of the breast and pregnancy • Hypophysis, thyroid gland 	<p>Practice 10 - Breast</p> <p>Histology:</p> <ul style="list-style-type: none"> • Fibrocystic disease • Invasive carcinoma, NST • Invasive carcinoma, lobular • Ductal carcinoma in situ (DCIS) • Fibroepithelial tumor <p>Preparation:</p> <ul style="list-style-type: none"> • Malignant breast tumor
	Spring break	
Week 11	<ul style="list-style-type: none"> • Parathyroid gland, adrenals, MEN 	<p>Practice 11- Endocrinology and dermatology</p> <p>Histology:</p> <ul style="list-style-type: none"> • Multinodulare goiter • Hashimoto-thyroiditis • Carcinoma papillare thyroideae • Pheochromocytoma • Naevus intradermalis cutis • Melanoma malignum cutis • Carcinoma basocellulare <p>Preparation:</p> <ul style="list-style-type: none"> • Kaposi sarcoma • Keloid • Macroglossia propter adenoma hypophysealis
Week 12	<ul style="list-style-type: none"> • Pathology of musculoskeletal system • Malformations, cerebrovascular diseases, edema, herniation, and hydrocephalus • CNS tumors, infections 	<p>Practice 12 - Bone and soft tissue</p> <p>Histology:</p> <ul style="list-style-type: none"> • Osteochondroma, bone • Osteosarcoma, bone • Fasciitis nodularis, subcutaneous tissue • Desmoid fibromatosis, mesenterium • Desmoid fibromatosis, mesenterium (beta catenin) • Rhabdomyosarcoma, brain • Liposarcoma-retroperitoneum • Synovial sarcoma-subcutaneous tissue <p>Preparation:</p> <ul style="list-style-type: none"> • Chondroma • Neurofibroma • Osteosarcoma
Week 13	<ul style="list-style-type: none"> • Diseases of myelin 	<p>Practice 13 - Neurology</p> <p>Histology:</p> <ul style="list-style-type: none"> • Glioblastoma

	<ul style="list-style-type: none"> • Neurodegenerative disorders • Non-neoplastic diseases of the skin 	<ul style="list-style-type: none"> • Medulloblastoma • Meningeoma • Parkinson's disease • Schwannoma Preparation: <ul style="list-style-type: none"> • Anencephaly • Haemorrhagia pontis (Duret hemorrhage) • Hydrocephalus externus • Hydrocephalus internus • Meningeoma • Metastasis multiplex cerebri (melanoma malignum) • Butterfly tumor
Week 14	<ul style="list-style-type: none"> • Neoplastic skin diseases • Pathology competition discussion, student staff meeting, take home message 	Practice 14 - Consultation

List of textbook**Kumar, Abbas, Aster****Robbins and Cotran: Robbins Basic Pathology (Elsevier, 10th Edition, 2017), ISBN: 978-0-323-35317-5****Andras Matolcsy (eited by)****Basic Pathology – A Socratic Approach (Medicina, 2nd edition, 2016), ISBN: 978-963-226-567 6****WEBPAGE***General informations and downloads:*<https://semmelweis.hu/patologia1/>*Online available slide center (digital slides):*<http://193.6.208.216/SlideCenter/Login>

Ms. Maria Cserneki shall be approached with technical problems regarding server availability:

e-mail: cserneky.maria@semmelweis-univ.hu**SlideViewer free download:**<https://www.3dhitech.com/research/software-downloads/>

General information

Lectures

The topic of the lectures includes both general and systemic pathology. Each lecture lasts 1 hour 10 minutes and is illustrated with board layouts, ppt. macroscopic and microscopic photographs, radiologic images, interesting autopsy cases illustrating the presented material.

Attending the lectures is compulsory, since the semifinal and final exams are partly based on them. The Department may record the absences and those students who skip more than 15 % of the lectures may not be registered for examination.

Practices

There are 14 two hour (1.5 hours) practices in both semesters, which are divided into autopsy and histopathology. Not more than 2 autopsy practices and not more than 2 histopathology practices can be missed in each semester. Catch up is possible only for autopsy hall practices, students can join other groups and their presence should be registered and signed by the tutor of the autopsy hall practice attended. In case the absences exceed the allowed limit the student will not be accepted for examination.

The histopathology practices provide basic histopathology skills. The topic of the histopathology practices matches that of the lectures. Brief theoretical background for the presented slides will be discussed in the frame of the practice. The pathological lesions will be presented in form of digital slides and will be demonstrated by the tutor with the help of a computerized multidiscussion/teleconsultation system. The digitalized slides will be individually studied and analyzed by the students as well. The digital slides are also available for the students through the internet any time (<https://www.3dhitech.com/research/software-downloads/>)

The preserved preprepared specimens connected the actual material will be demonstrated during the histopathology practices.

During autopsy practices the students will learn the basic skills of autopsy and how to recognize what's pathological and will gain skills to demonstrate and describe these lesions. The emphasis is on the clinicopathologic aspects of the discussed cases. The clinical staff or the therapist usually will be called at the end of every autopsy practices in order to realise a common consultation, discussion and summary with the end of take home messages.

The medical and patient information provided during autopsies, lectures and demonstrations is confidential. The requirement to maintain professional secrecy and preserve confidentiality also applies for medical students.

It is strictly forbidden to make any kind of record (photography, video, sound-record) of the material provided during the tuition and demonstrations in the facilities and building of the Department, especially during lectures and practices (excluding the autopsy practices, where students are allowed to make pictures certain gross alteration of the demonstrated organs). The material presented during the tuition is the intellectual property of the Department and their presentation is directly controlled by the Department. Therefore, it is not intended for the public and must not be published or arbitrarily recorded, alternatively taken away without the permission of the Department. Violation of the rules mentioned above implies disciplinary action. Exception can be made only based on the previous and written permission provided by the Head of the Department. The Department reserves the rights to completely control the communication of the information about the Department.

Midterm exams: There are no midterm exams nor in the first and not in the second semester as well.

Pathology competition

The only pathology competition will be held just before the last week of the **2nd semester**. Clinicopathology based macroscopic photographs will be projected, and in the former, based on documentation, the participants should recognize and describe an autopsy case and answer the case connected questions.

Students use code word. The first 3 place winner will be awarded. More information will be announced on the lecture held by the Head of the Department.

Consultation

Upon request there is a possibility for a consultation with always the tutor. The students are welcome to autopsy practices of other groups for retake or extra occasion as long as it does not disturb the ongoing practice. There is no plenary consultation during any semester.

EXAMINATIONS

SEMIFINAL:

1. Prerequisites:

Absences: not more than 2 autopsy practices and not more than 2 histology practices (histology practice and autopsy hall practice counts separately) can be missed in each semester. Attending the lectures is compulsory. If one does not fulfill the above mentioned prerequisites the Department of Pathology and Experimental Cancer Research has the right for not acknowledging the semester.

The semifinal exam consists of practical and theoretical parts.

All exam starts with practical exam followed by theoretical part.

2. Practical exam: 1 first semester histopathology slide and 1 first semester specimen demonstration. 2 marks will be given.

3. Theoretical part is an oral exam:

Semi-final exam questions: 2 topics (A and B)

1 topic: (general pathology) Sign with the letter "A"

1 topic: (oncology and cardiology). Sign with the letter "B"

The list of these theoretical questions is on the website of the Department.

2 additional marks will be given.

Evaluation: Failure of the practice is not obligatory failure of the exam.

Summary by the exam committee 1 final, result mark will be given in the index: practice marks (2) + oral marks (2). It should be kept in mind that the final mark is not merely the mathematical average

of the given grades of different parts of the exam! Serious mistakes or "clear spots" in your knowledge may significantly affect the final mark or even result in a failed exam.

Suspension: If you have any problem during the practical exam, ask the supervisor. In case of communicating, unacceptable behaviour, cheating (usage of mobile tools, books, notes, etc.,) your exam is immediately suspended and the exam will not be evaluated and counts as a failed exam. Written report of the incident will be prepared and signed by the teachers.

The exam begins at 9.00 a.m. at the Department of Pathology and Experimental Cancer Research, meeting at the Digital Histology practice room, ground floor. The students to be examined will be identified by picture ID cards by the supervisor before starting the exam. Therefore, students should present a picture ID, otherwise they are not allowed to take examination!

Exam dates: You will be notified about the dates offered by the Department before the exam period and they will be finalized at the Staff/Student meeting. Then these fixed days will figure in NEPTUN. Usually Tuesdays and Thursday are the regular exam dates. Usually Tuesdays and Thursday are the regular exam dates and app. 25-30 EM students are accepted each exam day. Important! Taking examinations before the exam period is not permitted! (University Policy). In exceptional cases (such as near-delivery, etc.), you must have a written permission from the Dean's Office.

Registration: The internet based sign up system (NEPTUN) regarding pathology has been established for 3rd year students as well. The sign up procedure is controlled and regulated by the software and the institute can not interfere with the system. The officially signed up students will be scheduled for examination.

Rescheduling the exam date: The list of examinees is completed 1 hour before the examination date. The NEPTUN system automatically closes the sign up list by expiration of the deadline. Example: if the exam is on Tuesday, you may remove your name before Monday 12:00 pm. After that changes are not permitted. If you do not show up on the given exam date, you should justify it within 3 days at the head of the Institute or at the tutor responsible for the English program. Otherwise, "not appeared" note is written in your index, and the exam is not allowed without having a retake ticket! The skipped exam is deducted from the number of possible retake exams.

Retake exam: In case of failure or for those who are unsatisfied with the result of the first exam a retake exam should be taken to improve the mark. For that a retake ticket is required from the secretariate. If one retakes an exam to improve the previous mark it is not granted that mark of the retake exam can not be the same or worst than the previous mark. Every parts of the exam must be retaken - the practical exam as well. One must also register on the NEPTUN system and indicate that this is the first, second, etc. retake exam. Without retake ticket and NEPTUN registration one is not allowed to take an examination.

Any further details regarding the exam and exam dates will be discussed on a Students-Professor sitting held in the 7-8 gradual week, first semester. The date of the meeting is to be announced on the lecture.

FINAL EXAM

Prerequisites:

Absences: not more than 2 autopsy practices and not more than 2 histology practices (histology practice and autopsy hall practice counts separately) can be missed in each semester. Attending the lectures is compulsory. If one does not fulfill the above mentioned prerequisites the Department of Pathology and Experimental Cancer Research has the right for not acknowledging the semester. Further requirement is to pass the semifinal exam before.

The final exam consists of practical and theoretical parts.

All exam starts with practical exam followed by theoretical part.

Practical exam: 2 histopathology slides of any semester and 1 specimen demonstration of any semester and 1 organ demonstration in the autopsy room. During this part of the exam dissected organs or organ complexes are to be described. The student should be able to orientate the organ (or organ complex) properly, to describe it fully and evaluate the pathological alterations and establish diagnoses.

3 marks will be given as the result of the practical exam.

Theoretical part is an oral exam:

Final exam questions: 3 topics (A, B, C)

1 topic: (general pathology) Sign with the letter "A"

1 topic: (oncology and cardiology). Sign with the letter "B"

1 topic: (systemic pathology). Sign with the letter "C"

The list of these theoretical questions is on the website of the Department.

The exam board may ask the 10 autopsy case's summary collected during the two semesters. The autopsy cases are discussed previously to the students by the tutor.

4 additional marks will be given.

Evaluation: Failure of the practice is not obligatory failure of the final exam.

Summary by the exam committee 1 final, result mark will be given in the index: practice exam marks (3) + oral exam marks (4). It should be kept in mind that the final mark is not merely the mathematical average of the given grades of different parts of the exam! Serious mistakes or "clear spots" in your knowledge may significantly affect the final mark or even result in a failed exam.

Suspension: If you have any problem during the practical exam, ask the supervisor. In case of communicating, unacceptable behaviour, cheating (usage of mobile tools, books, notes, etc..) your exam is immediately suspended and the exam will not be evaluated and counts as a failed exam. Written report of the incident will be prepared and signed by the teachers.

The exam for EM begins at **9.00 a.m.** at the Department of Pathology and Experimental Cancer Research, meeting at the Digital Histology practice room, ground floor. The students to be examined will be identified by picture ID cards by the supervisor before starting the exam. Therefore, students should present a picture ID, otherwise they are not allowed to take examination!

Exam dates: You will be notified about the dates offered by the Department before the exam period and they will be finalized at the Staff/Student meeting. Then these fixed days will figure in NEPTUN. Usually Tuesdays and Thursday are the regular exam dates and app. 25-30 EM students are accepted each exam day.

Important! Taking examinations before the exam period is not permitted! (University Policy). In exceptional cases (such as near-delivery, etc.), you must have a written permission from the Dean's Office.

Registration: The internet based sign up system (NEPTUN) regarding pathology has been established for 3rd year students as well. The sign up procedure is controlled and regulated by the software and the institute can not interfere with the system. The officially signed up students will be scheduled for examination.

Rescheduling the exam date: The list of examinees is completed 1 hour before the examination date. The NEPTUN system automatically closes the sign up list by expiration of the deadline. Example: if the exam is on Tuesday, you may remove your name before Monday 12:00 pm. After that changes are not permitted. If you do not show up on the given exam date, you should justify it within 3 days at the head of the Institute or at the tutor responsible for the English program. Otherwise, "not appeared" note is written in your index, and the exam is not allowed without having a retake ticket! The skipped exam is deducted from the number of possible retake exams.

Retake exam: In case of failure or for those who are unsatisfied with the result of the first exam a retake exam should be taken to improve the mark. For that a retake ticket is required from the secretariate. If one retakes an exam to improve the previous mark it is not granted that mark of the retake exam can not be the same or worst than the previous mark.

Every parts of the exam must be retaken - the practical exam as well.

One must also register on the NEPTUN system and indicate that this is the first, second, etc. retake exam. Without retake ticket and NEPTUN registration one is not allowed to take an examination.

Any further details regarding the exam and exam dates will be discussed on a Students-Professor sitting held in the 7-8 gradual week of the second semester. The date of the meeting is to be announced on the lecture.

Schedule

Lectures

	<u>1st semester</u>	<u>2nd .semester</u>
Monday	10:00 – 11:10	10:00 – 11:10
Wednesday	8:00 – 9:10	8:00 – 9:10

Practices

		<u>1st semester</u>		<u>2nd semester</u>	
Group 10,11,12	Monday	11:30 – 13:00		Monday	11:30 – 13:00
	Thursday	11:30 – 13:00		Thursday	11:30 – 13:00
Group 14,15,16	Wednesday	12:00 – 13:30		Wednesday	12:00 – 13:30
	Friday	12:00 – 13:30		Friday	12:00 – 13:30
Group 17,19,20	Wednesday	14:00 – 15:30		Wednesday	14:00 – 15:30
	Friday	14:15 – 15:45		Friday	14:15 – 15:45

* preliminary data

Contact list of Tutors

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