



## Smlouva o poskytování služeb č. ....

(dále jen „smlouva“)

uzavřená ve smyslu § 1746 odst. 2 zákona č. 89/2012 Sb., občanský zákoník, v platném znění  
(dále jen „**ObčZ**“)

### I.

#### Smluvní strany

##### 1.1 Objednatel:

Název subjektu: **Univerzita Karlova, Lékařská fakulta v Plzni**  
Sídlo: Husova 654/3, 301 00 Plzeň  
Zastoupena: prof. MUDr. Borisem Kreuzbergem, CSc., děkanem fakulty  
IČ: 00216208  
DIČ: CZ00216208  
Bankovní spojení: Komerční banka a.s.  
Číslo účtu: 61633311/0100  
Datová schránka: pijj9b4  
(dále jen „**objednatel**“) na straně jedné

a

##### 1.2 Poskytovatel:

Název subjektu: **Typos, tiskařské závody, s.r.o.**  
Sídlo: Podnikatelská 1160/14, 320 56 Plzeň  
Zastoupený: Dominikem Metzlerem, jednatelem  
IČ: 28433301  
DIČ: CZ28433301  
Bankovní spojení: Raiffeisenbank a.s.  
Číslo účtu: 1003009478/5500  
Datová schránka: ngv8vix  
Zapsaný v Obchodním rejstříku vedeném Krajským soudem v Plzni, oddíl C, vložka 21906  
(dále jen „**poskytovatel**“) na straně druhé

(společně dále jen „**smluvní strany**“)

uzavírají na základě výsledku veřejné zakázky s názvem „*Tiskařské služby 06-2017*“ v rámci dynamického nákupního systému s názvem „*DNS pro tiskařské služby 2017 až 2018*“ zadávané jako veřejná zakázka v režimu zákona č. 134/2016 Sb., o zadávání veřejných zakázek, v platném znění (dále jen „**ZZVZ**“), smlouvu následujícího znění:



## II.

### Předmět a účel smlouvy

- 2.1 Předmětem této smlouvy je tisk brožur Karolínka 2017 až 2018 v anglickém jazyce.
- 2.2 Tato smlouva je sjednána na základě úplného konsensu v souladu s příslušnými ustanoveními obecně závazných právních předpisů, a to zejména ObčZ. Právní vztahy smluvních stran touto smlouvou výslovně neupravené se řídí ustanoveními ObčZ upravujícími příslušný, nebo obsahově nejbližší typ závazku z právního jednání.
- 2.3 Předmětem této smlouvy je dvoustranný právní vztah mezi poskytovatelem a objednatelem, jehož obsahem jsou práva a povinnosti smluvních stran související s poskytnutím služeb při tisku brožur Karolínka.
- 2.4 Účelem této smlouvy je právní úprava předmětu této smlouvy v souladu s vůlí smluvních stran a příslušnými obecně závaznými právními předpisy tak, aby každá smluvní strana nadále jednala ve všech záležitostech souvisejících s předmětem smlouvy při nejvyšší míře právní jistoty.

## III.

### Předmět plnění

- 3.1 Poskytovatel se za podmínek dále v této smlouvě uvedených zavazuje pro objednatele vytisknout brožury Karolínka 2017 až 2018 v anglickém jazyce, a to v počtu 500 kusů.
- 3.2 Specifikace jednoho výtisku brožury:

Formát:	B5
Vazba:	V1
Rozsah:	maximálně 52 stran + obálka
Barevnost obálka:	4/4
Barevnost vnitřek:	1/1 (Pantone 560 C)
Papír:	křídový - vnitřek 115 g/m <sup>2</sup> , obálka 250 g/m <sup>2</sup> s jednostranným lesklým lakem (z vnější strany)
- 3.3 Obsahová náplň je jednoznačně dána podkladem ve formátu PDF, který je nedílnou přílohou této smlouvy jako Příloha č. 1 (Tisková data).
- 3.4 Brožury dodá poskytovatel v baleních do fólie po 5 ks.  
výše uvedené dále jen „**předmět plnění**“.

## IV.

### Doba a místo plnění

- 4.1 Poskytovatel se zavazuje, že zboží dodá objednateli do 21 kalendářních dnů ode dne účinnosti této smlouvy, nejpozději však 19. 9. 2017. V případě prodlení s termínem dodání předmětu plnění dle tohoto článku smlouvy se poskytovatel zavazuje uhradit objednateli smluvní pokutu ve výši 0,5 % z ceny za poskytnuté plnění bez DPH. Celková výše smluvní pokuty není omezena.



- 4.2 O předání a převzetí předmětu plnění bude mezi poskytovatelem a objednatelem sepsán předávací protokol (případně bude předání a převzetí stvrzeno jiným prokazatelným způsobem) podepsaný oprávněnými zástupci obou smluvních stran. Předmět plnění se považuje za převzatý a předaný okamžikem podpisu předávacího protokolu ve smyslu věty předchozí.
- 4.3 Místem plnění je Lékařská fakulta v Plzni na adrese Husova 654/3, 301 00 Plzeň.
- 4.4 Objednatel není povinen převzít předmět plnění s právními nebo faktickými vadami, a dále pokud nebude dodán v dohodnutém množství.

## V.

### **Cena za poskytnutí předmětu plnění a platební podmínky**

- 5.1 Cena za poskytnutí předmětu plnění byla smluvními stranami stanovena na **18 900,00 Kč bez DPH**, sazba DPH 21 %, částka DPH 3 969,00 Kč, cena včetně DPH 22 869,00 Kč.
- 5.2 Celková cena za poskytnutí předmětu plnění je splatná na základě faktury vystavené po splnění smluvních podmínek formou bankovního převodu na účet poskytovatele uvedený v bodě 1.2 Faktura musí splňovat náležitosti daňového dokladu dle platného zákona o DPH, v platném znění. Minimální splatnost faktury je 14 dnů ode dne jejího prokazatelného předání objednateli.
- 5.3 Důvodem pro případnou změnu sjednané ceny je pouze změna sazby DPH, přičemž cena bez DPH je neměnná.
- 5.4 Platba se považuje za uskutečňovanou dnem, kdy je připsána ve prospěch bankovního účtu poskytovatele.
- 5.5 Objednatel se zavazuje zaplatit smluvní pokutu za prodlení s placením faktur po termínu splatnosti ve výši 0,5 % z dlužné částky za každý den prodlení. Zaplacením smluvní pokuty není dotčeno právo poskytovatele na náhradu škody.

## VI.

### **Práva a povinnosti smluvních stran**

- 6.1 Poskytovatel prohlašuje, že je schopen jednat se znalostí a pečlivostí, kterou řádné plnění této smlouvy vyžaduje. Poskytovatel odpovídá za použití náležitě kvalifikovaného personálu, přičemž tímto výslovně ujišťuje objednatele, že plnění předmětu smlouvy bude poskytovat prostřednictvím pracovníků, kteří mají odborné zkušenosti s realizací předmětu plnění, jež je předmětem této smlouvy.
- 6.2 Poskytovatel se zavazuje poskytnout objednateli v odpovídajícím čase konkrétní a jasné pokyny pro provádění potřebné součinnosti, bude-li toto řádné plnění smlouvy vyžadovat.
- 6.3 Poskytovatel bere na vědomí, že je osobou povinnou spolupůsobit při výkonu finanční kontroly dle § 2 písm. e) zákona č. 320/2001 Sb., o finanční kontrole ve veřejné správě, v platném znění. Dále se poskytovatel zavazuje poskytnout kontrolním orgánům součinnost při podání informací a předání dokladů týkajících se jeho činnosti v rámci této smlouvy.



- 6.4 Poruší-li smluvní strana povinnost z této smlouvy či může-li a má-li o takovém porušení vědět, oznámí to bez zbytečného odkladu druhé smluvní straně, které z toho může vzniknout újma, a upozorní ji na možné následky; v takovém případě nemá poškozená smluvní strana právo na náhradu té újmy, které mohla po oznámení zabránit.

## **VII.**

### **Odpovědné osoby**

- 7.1 Za objednatele je v souvislosti s plněním této smlouvy oprávněn jednat:  
Ing. Barbora Černíková, e-mail Barbora.Cernikova@lfp.cuni.cz, telefon 377 593 446
- 7.2 Za poskytovatele je v souvislosti s plněním této smlouvy oprávněn jednat:  
Jan Šůs, e-mail sus@typos.cz, telefon 602 477 344

## **VIII.**

### **Odstoupení a vady**

- 8.1 V rámci závazků plynoucích z této smlouvy odpovídá poskytovatel objednateli za formální a věcnou správnost poskytnutého předmětu plnění.
- 8.2 Odstoupit od této smlouvy může objednatel, kromě zákonných důvodů, v případě, že:
- poskytovatel nedodrží sjednané termíny poskytnutí služeb;
  - poskytovatel nekoná i přes písemnou výzvu ze strany objednatele dle ustanovení 6.1 této smlouvy; v písemné výzvě ve věci odstoupení od smlouvy ze strany objednatele musí objednatel výslovně uvést, v čem spatřuje nedostatky, jakým způsobem mají být odstraněny, musí poskytovateli poskytnout přiměřenou lhůtu k jejich odstranění a musí poskytovatele výslovně upozornit na možnost odstoupení.
- 8.3 Odstoupením od smlouvy zanikají všechna práva a povinnosti smluvních stran. Odstoupení od smlouvy se však nedotýká nároku na náhrady škody vzniklé porušením smlouvy ani nároku na smluvní pokuty dle této smlouvy.

## **IX.**

### **Ostatní ujednání**

- 9.1 Tato smlouva nabývá platnosti a účinnosti dnem podpisu oběma smluvními stranami. V případě, že cena za poskytnutí předmětu plnění je vyšší než 50 000,00 Kč bez DPH, nastává účinnost této smlouvy až jejím uveřejněním v registru smluv podle zákona č. 340/2015 Sb., v platné znění, přičemž poskytovatel s tímto uveřejněním tímto výslovně souhlasí.

Zaslání smlouvy do registru smluv zajistí objednatel neprodleně po podpisu smlouvy. Objednatel se současně zavazuje informovat druhou smluvní stranu o provedení registrace tak, že zašle druhé smluvní straně kopii potvrzení správce registru smluv o uveřejnění smlouvy bez zbytečného odkladu poté, kdy sama potvrzení obdrží, popřípadě již v průvodním formuláři vyplní



- příslušnou kolonku s ID datové schránky druhé smluvní strany; v takovém případě potvrzení od správce registru smluv o provedení registrace smlouvy obdrží obě smluvní strany zároveň.
- 9.2 Změnit nebo doplnit tuto smlouvu mohou smluvní strany pouze formou písemných dodatků, které budou vzestupně číslovány, výslovně prohlášeny za dodatek této smlouvy a podepsány oprávněnými zástupci smluvních stran; smluvní strany tímto ve smyslu § 564 ObčZ výslovně vylučují možnost změny smlouvy v jiné formě.
- 9.3 Pokud se jakékoliv ustanovení této smlouvy později ukáže nebo bude určeno jako neplatné, neúčinné, zdánlivé nebo nevynutitelné, pak taková neplatnost, neúčinnost, zdánlivost nebo nevynutitelnost nezpůsobuje neplatnost, neúčinnost, zdánlivost nebo nevynutitelnost smlouvy jako celku. V takovém případě se smluvní strany zavazují bez zbytečného prodlení dodatečně takové vadné ustanovení vyjasnit ve smyslu ustanovení § 553 odst. 2 ObčZ nebo jej nahradit po vzájemné dohodě novým ustanovením, jež nejbližší, v rozsahu povoleném ObčZ či jinými právními předpisy, odpovídá úmyslu smluvních stran v době uzavření této smlouvy.
- 9.4 Tato smlouva je vyhotovena ve třech stejnopisech, z nichž objednatel obdrží 2 vyhotovení a poskytovatel obdrží jedno vyhotovení.

## X.

### Závěrečná ustanovení a podpisy smluvních stran

- 10.1 Tato smlouva nahrazuje všechny předchozí dohody, ujednání, sliby anebo prohlášení, které by s ní byly v rozporu.
- 10.2 Smluvní strany prohlašují, že tato smlouva je výsledkem úplného, souhlasného projevu vážné vůle smluvních stran o celém jejím obsahu, že ji uzavřely bez přinucení a že jim nejsou známy žádné okolnosti, které by měly vliv na její platnost, respektive účinnost. Dále potvrzují, že si tuto smlouvu před jejím podpisem řádně přečetly, jejímu obsahu porozuměly, a na důkaz shody o její formě i obsahu připojují své podpisy.

#### Přílohy:

1. Tisková data

#### Objednatel:

V Plzni dne .....

#### Poskytovatel:

V Plzni dne .....

.....  
prof. MUDr. Boris Kreuzberg, CSc.  
děkan

.....  
Dominik Metzler  
jednatel

**CHARLES UNIVERSITY**

**Faculty of Medicine in Pilsen**



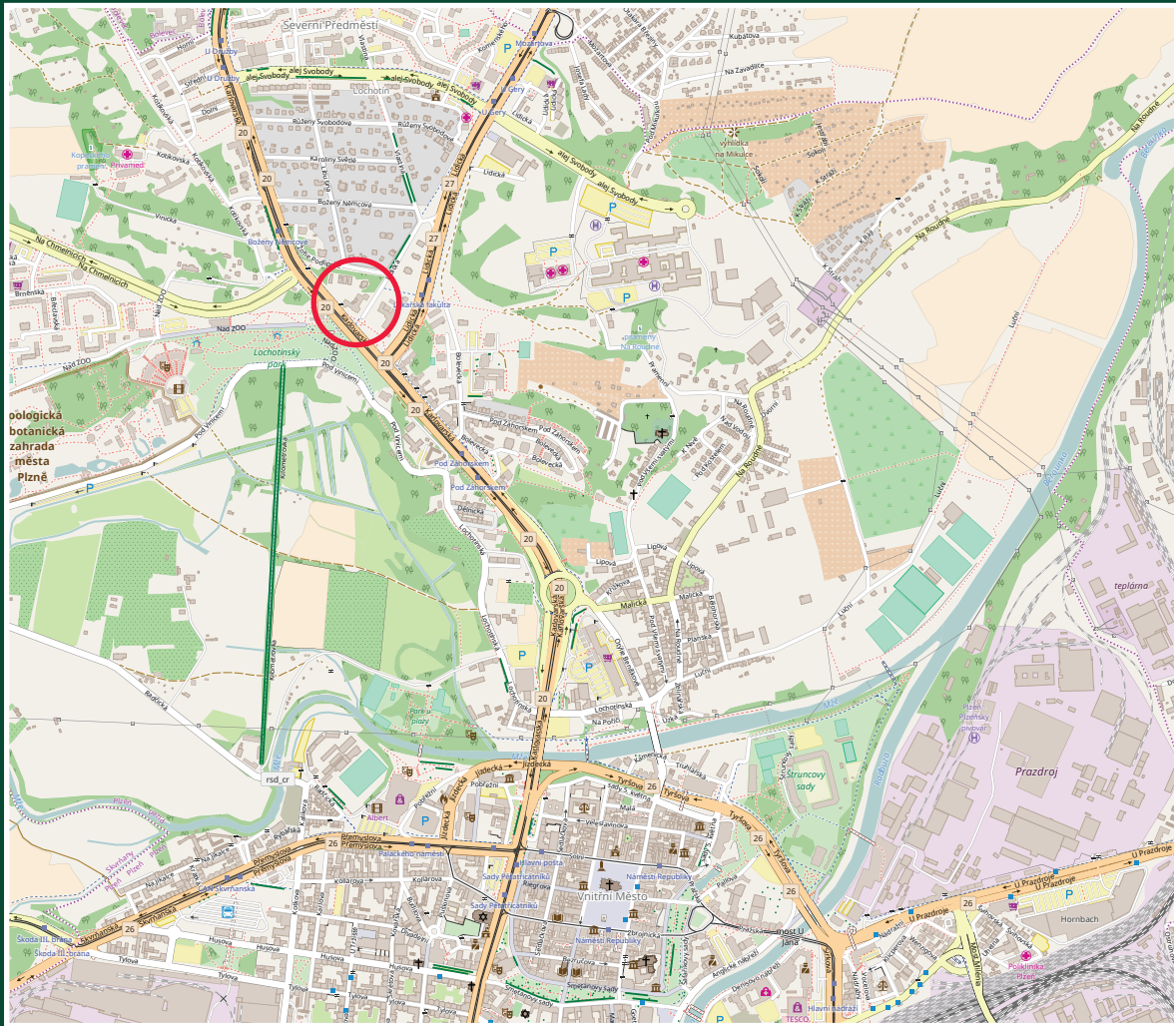
**Medical Studies in English**  
**Academic year 2017/2018**



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qui in arte medica doctoris nomenac honores conse-  
constituta sunt, cum laude superatis, nos adiustis  
siderantes, ut vos eo honore in hoc solemni coessu  
naremus.

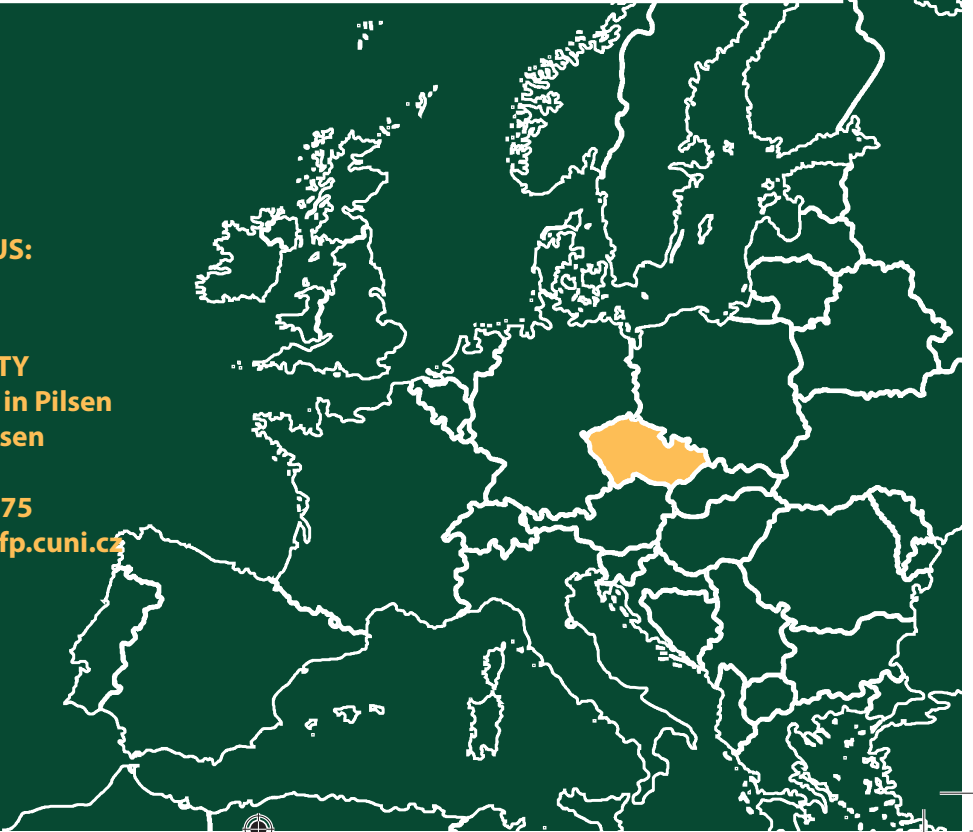
Prius autem fides est sanda, vos tales semper futu-  
quales vos esse iubebit dignitas, quam obtinueriti  
nos vos fore speramus.

Spondebitis igitur: Primum vos huius Universitatis  
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tiones, quoad poteritis, adiuturos:  
Dein honorem eum, quem in vos collaturus sum,  
m in columemque servaturos: Postremo doctri-  
petis, cum industria vestra culti  
progreddente tem



## HOW TO CONTACT US:

**CHARLES UNIVERSITY**  
Faculty of Medicine in Pilsen  
Lidická 1, 301 00 Pilsen  
Czech Republic  
Tel.: +420 377 593 175  
E mail: [medstudy@lfp.cuni.cz](mailto:medstudy@lfp.cuni.cz)  
[www.lfp.cuni.cz](http://www.lfp.cuni.cz)





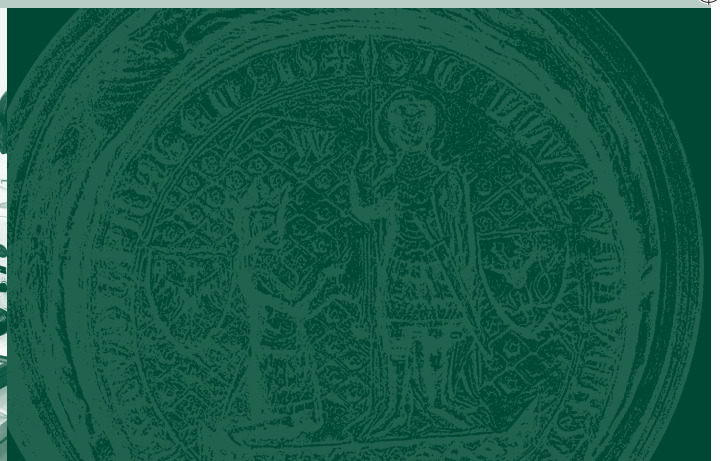
**CHARLES UNIVERSITY**

**Faculty of Medicine in Pilsen  
Lidicka 1, 301 00 Pilsen  
Czech Republic  
Tel.: +420 377 593 175  
E mail: [medstudy@lfp.cuni.cz](mailto:medstudy@lfp.cuni.cz)  
[www.lfp.cuni.cz](http://www.lfp.cuni.cz)**



# Medical Studies in English

Academic year 2017/2018



Charles University  
Faculty of Medicine in Pilsen





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web: [lfp.cuni.cz](http://lfp.cuni.cz)

# MEDICAL STUDIES IN PILSEN 2017/2018

## INTRODUCTION AND HISTORY

The Faculty of Medicine in Pilsen was founded by President Benes' decree in October 1945 as a branch of the Prague Medical Faculty and, in 1953 it became an independent faculty of Charles University. Its study program uses similar curriculum as most European medical faculties. Students receive training for the medical profession as well as for research in medical sciences.

Studying at the Faculty of Medicine requires high intellectual abilities and good moral qualities. It is not the aim of the Faculty to produce a high number of graduates. Our aim is to provide an education which will prepare future doctors both professionally and morally to devote their energy and effort to helping the sick and achieving advances in the medical sciences.

## LOCATION AND ENTERTAINMENT

The city of Pilsen has over 170,000 inhabitants and is situated about 90 km southwest of Prague and 70 km east of the German border. It is surrounded by beautiful countryside and is famous for its Pilsner Urquell brewery, the Skoda factory and the University of West Bohemia. The historic centre of the town offers many places of cultural interest (theatres, concert halls, a modern State Scientific Library, museum, historical underground, and cinemas) as well as numerous sport facilities (swimming pools, gyms, and bowling clubs). Pilsen also frequently hosts scientific congresses and gatherings.

## COURSES

The Faculty of Medicine in Pilsen offers courses in General Medicine (six years) and Dentistry (five years) in both Czech and English languages. For medical students, the first two years of study are devoted to theoretical disciplines, such as Anatomy, Histology, Embryology, Biophysics, Biochemistry and Physiology. During the third and fourth years, pre-clinical subjects, such as Pathological Anatomy, Pathological Physiology, Microbiology, Immunology and Pharmacology are studied. Bedside teaching is also introduced in the third year. The last two years of study are fully devoted to clinical subjects. For students of Dentistry, the first two years of study are devoted to theoretical disciplines and pre-clinical Dentistry, the third, fourth and fifth years are devoted to clinical stomatology.

The academic years for theoretical disciplines and pre-clinical subjects are organized into winter and summer semesters. Each semester consists of a teaching period followed by an examination period. The clinical courses are organized in a block system.

## FEES

The annual fee for the academic year 2017/2018 is 260,000 CZK for General Medicine Course and 320,000 CZK for Dentistry Course. The Faculty guarantees that the tuition fee will remain unchanged throughout the period of the student's studies. It covers all instruction (lectures, seminars, lab work clinical training and tutorials); certain necessary texts such as laboratory manuals etc., and entitles students to use all faculty facilities including the library and modern computer lab.

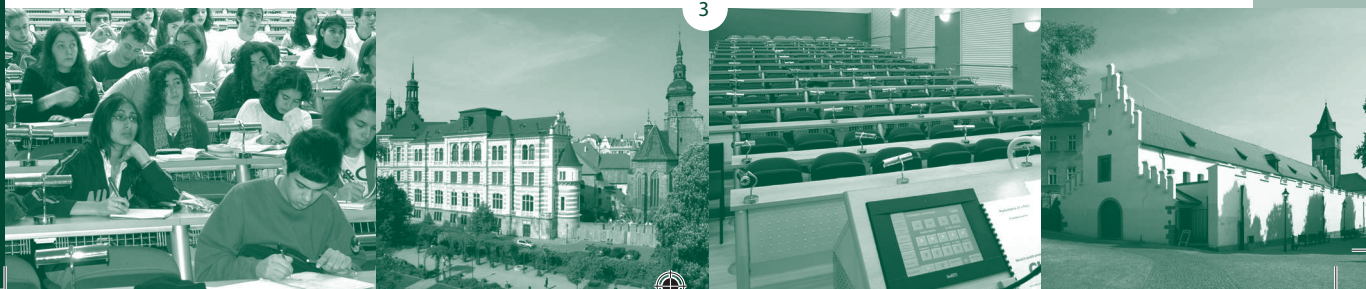
The fee does not cover accommodation and meals. Other expenses not covered by the annual fee include a residence permit, and payments necessary for the translation and official recognition of secondary school certificates.

## COMPLETION OF STUDY

After completing their studies, students are awarded a Doctor of Medicine degree – MUDr. (Medicinae Universae Doctor) for the students of General Medicine or a Doctor of Dental Medicine degree – MDDr. (Medicinae Dentium Doctor) for the students of Dentistry, at a traditional ceremony held in the Carolinum, a historical University hall in Prague. This degree is widely recognized in most countries.

## FACULTY OF MEDICINE IN PILSEN AND ITS ADVANTAGES

**Location in the Czech Republic:** The Czech Republic is located in the heart of Europe and thus attracts business, students, and tourists from many countries. Easy access to a number of countries is one of many advantages of studying in Central Europe. The Czech Republic is a beautiful country with rolling hills and countryside, contrasting with historic cities which contain some of the most interesting examples of architecture in the world. Modern shops



and department stores offer a rich assortment of goods both of Czech and foreign origin.

**Connections to Prague:** There are frequent direct flights from most major airports to the modern Václav Havel Airport Prague. There are also excellent coach and train links with other countries in Europe.

**Location close to Prague:** Bus and train connections between Prague and Pilsen are frequent with the journey lasting approximately 1.5 hours. The journey by car is approximately 1 hour.

**Other advantages:**

- Low fee compared to those required in the English speaking countries
- Low cost of living
- Efficient and inexpensive public transport
- Experienced and devoted faculty staff
- Well-equipped laboratories and library
- Modern teaching hospital
- Short distances between faculty buildings, Faculty hospital and accommodation

**ISMAP – INTERNATIONAL STUDENT MEDICAL ASSOCIATION IN PILSEN**

The International Student Medical Association in Pilsen (ISMAP) is a non-profit student based organization which not only aims to help current students at the University but also to promote social events to give a broader experience during their life at the University. ISMAP is divided into several departments such as Sports, Science, Culture, Welfare, Media and Marketing, Social Events and Archives. In addition to the activities organized by each department, ISMAP is also responsible for communication between students and the faculty. ISMAP is an important organization for the medical students in Pilsen while it has also hit several targets through its social, scientific and cultural activities among others.

**PRACTICAL POINTS**

**Accommodation:** The Faculty provides accommodation for students in two halls of residence, both of which are located close to medical faculty. Living units are comprised of 2 double-bed rooms with a shared kitchen, bathroom and toilet. Within the halls of residence are also a cafeteria and sport facilities. Accommodation is not included in the tuition fee. Rent for a single bed in a double-bed room averages approximately € 155 per month.

**Meals:** Meals can be obtained at moderate prices in any of the canteens in the faculty buildings or in the faculty hospital. Price of a meal is approximately € 3.



# BASIC INFORMATION ABOUT THE UNIVERSITY AND THE FACULTY

## ADMISSION REQUIREMENTS

Applicants must present secondary school certificates. Passes equivalent to the British GCE A Level are normally required in three subjects (Chemistry, Physics and Biology). Applicants must satisfactorily pass the entrance exam in Physics, Chemistry, and Biology. Applicants are expected to have secondary school knowledge but the University allows reasonable differences in levels of knowledge in students from different schools and countries.

## ENTRANCE EXAMINATION

The entrance examination for the study program in English is organized as follows:

1. In June at the Faculty of Medicine in Pilsen.
2. During summer vacation organized by the appropriate cooperating agency (Portugal, Italy, Germany, Sweden, Greece). The entrance examination fee is 650 CZK. The examination consists of a multiple choice test in Chemistry, Biology and Physics. The requirements are similar to the British "A" level examination requirements.

The tests are administered and marked by a university professor. The admission of students remains however within the responsibility of the Dean of the Faculty. Depending on the outcome of the examination, those who achieve the required results enroll at the Faculty of Medicine in Pilsen in late September of the same year.

Students who fail the entrance examination may not retake the exam during that same academic year.

Each applicant shall submit a certified copy of their original CE certificate on or before the date of enrollment.

Secondary school certificates should be translated into English or Czech and legally certified by the Ministry of Foreign Affairs in the applicant's home country, as well as the nearest Czech Embassy (Consulate). Those documents should be presented by the date of enrollment to which the applicant will be invited.

## HOW TO APPLY

For more detailed information please see <http://www.lfp.cuni.cz/clanek/1343-how-to-apply.html>

The applicant should send a completed application form together with the registration fee payment receipt to: CharlesUniversity, Faculty of Medicine in Pilsen, Department for Medical Studies in English Lidická 1, 301 00 Plzeň Czech Republic (tel: + 420 377 593 175; e-mail: [medstudy@lfp.cuni.cz](mailto:medstudy@lfp.cuni.cz))

The applicant may also contact the following agencies that cooperate with the Faculty:

Academic Agency	Vratislavova 10, Praha 2, Czech Republic	+420-602 226 958 <a href="mailto:aag@wo.cz">aag@wo.cz</a>
Skandinavien Agency	contact person MDDr. Rahmany Nejad Ali	+420-776 251 584 <a href="mailto:skandinavien.cz@gmail.com">skandinavien.cz@gmail.com</a>
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Al – Kindi Center Ltd.	Dr. Ing. Khashi Mohammad	+420-602 266 553 <a href="mailto:alkindi@email.cz">alkindi@email.cz</a>
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Medicor Tutor Agency	<ul style="list-style-type: none"> <li>– Piazzale Biancamano, 8, Milano (IT)</li> <li>– Gran Via de Les Corts Catalanes, 583, Barcelona (ES)</li> <li>– Okružná 788/18, Poprad (SK)</li> </ul>	+39 331 522 97 68 (IT) +34 651 041 088 (ES) +421 948 972 707 (Head office) <a href="mailto:info@medicortutor.com">info@medicortutor.com</a> <a href="http://www.studiaremedicinaestero.com">www.studiaremedicinaestero.com</a> <a href="http://www.donde-estudiar-medicina.com">www.donde-estudiar-medicina.com</a>



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**Vice Deans** Prof. MUDr. Vladislav Třeška, DrSc. / Vice Dean for Science and Education  
 Doc. MUDr. Jaroslav Slípka, CSc. / Vice Dean for Foreign Relations  
 Prof. MUDr. Alena Skálová, CSc. / Vice Dean for Study of General Medicine in Czech Language  
 Doc. MUDr. Antonín Zicha, CSc. / Vice Dean for Study of Stomatology, Dentistry and Social Matters of Students  
 Doc. RNDr. Pavel Fiala, CSc. / Vice Dean for Parallel Study of Master Study Programs in English  
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 Opening hours:  
 Library incl. Study room 1: Mon–Thu 8<sup>00</sup> am – 5<sup>00</sup> pm, Fri 8<sup>00</sup> am – 3<sup>00</sup> pm  
 Study rooms 2 & 3: Mon–Fri 7<sup>00</sup> am – 7<sup>00</sup> pm

**E-shop of the Faculty of Medicine in Pilsen** [www.eshop-rychle.cz/lfp](http://www.eshop-rychle.cz/lfp)  
 contact person: Mgr. Adam Šoukal, e-mail: adam.soukal@lfp.cuni.cz



### Western Union business solutions for payment in CZK

Pay CZK fees (tuition fee) in a currency of your choice using domestic bank transfer Use time and cost-effective payment method and minimize your banking fees. See [www.lfp.cuni.cz](http://www.lfp.cuni.cz)  
(English version – For Students – Payment portal for tuition fee in CZK).

#### Bank contact – Euro

Name: Univerzita Karlova  
Lékařská fakulta v Plzni  
Husova 3, 301 00 Plzeň  
Bank: Komerční banka  
Adress: Goethova 1, 305 95 Plzeň  
Acc. No: 4870340277/0100  
SWIFT: KOMBC Z PPXXX  
IBAN: **CZ440100000004870340277**

#### Bank contact – CZK

Name: Univerzita Karlova  
Lékařská fakulta v Plzni  
Husova 3, 301 00 Plzeň  
Bank: Komerční banka  
Adress: Goethova 1, 305 95 Plzeň  
Acc. No: 61633311/0100  
SWIFT: KOMBCZPPXXX  
IBAN: **CZ1500100000000061633311**

### FACULTY CREDIT SYSTEM

The newly implemented credit system corresponds with the ECTS (European Credit Transfer System), according to which every course (subject) is assigned a certain number of credits.

The total number of credits required for taking the last part of the final state examination is 360 in the General Medicine study program and 300 in the Dentistry study program.

The total number of credits is the sum of credits acquired by completing both the obligatory and elective courses.

Share of credits for elective courses in continuous assessment of study (Art. 4 of the Study and Examination Rules):

1. Share of credits acquired by completing the elective courses should amount to 15 % of the total number of credits. The Dean of the Faculty can decide to increase this share for a given year of study.
2. The minimum number of credits required by the Faculty of Medicine in Pilsen for enrollment in the next year of the Master study programme is as follows:
  - a) 40 credits for enrollment in the second year of the study programme "General Medicine" and 42 credits for enrollment in the second year of the study programme "Dentistry".
  - b) 98 credits for enrollment in the third year of the study programme "General Medicine" and 104 credits for enrollment in the third year of the study programme "Dentistry".
  - c) 179 credits for enrollment in the fourth year of both study programmes "General Medicine" and "Dentistry".
  - d) 227 credits for enrollment in the fifth year of the study programme "General Medicine" and 229 credits for enrollment in the fifth year of the study programme "Dentistry".
  - e) 295 credits for enrollment in the sixth year of the study programme "General Medicine".
  - f) 360 credits for enrolment in any further study in the General Medicine study programme.

Repeated enrollment in any part/year of study is not possible. Repeated registration for a course is possible only once on condition that the course requirements ("credit") were fulfilled in the previous study year and that the examination is taken in the subsequent year of study. However, completion of some obligatory courses may be a prerequisite for sitting for an examination in the following courses. For enrollment in the fourth year of study (i.e. the transition from the preclinical to the clinical part of the study) all obligatory and core elective courses must be completed and the full number of required credits must be achieved.

More comprehensive text is available on the web site of the Faculty: [www.lfp.cuni.cz](http://www.lfp.cuni.cz)





# CURRICULUM

## ACADEMIC YEAR 2017/2018

The Academic Year starts on **1. 10. 2017**.

The Academic Year ends on **30. 9. 2018**.

	Winter semester	Summer semester
Teaching period	2. 10. 2017 – 12. 1. 2018	19. 2. 2018 – 25. 5. 2018
Examination period	15. 1. 2018 – 18. 2. 2018	28. 5. 2018 – 30. 6. 2018
Christmas vacation	23. 12. 2017 – 2. 1. 2018	—
Summer vacation	—	1. 7. 2018 – 31. 8. 2018
Electronical registration for exams	from 2. 1. 2018	from 7. 5. 2018

Block of teaching of the **6<sup>th</sup> year General Medicine** starts on **28. 8. 2017**.

It is also possible to sit the exams in the period from 1. 7. 2017 till 15. 9. 2018.

Setting examination terms during this period is fully up to appropriate Departments.



## GENERAL MEDICINE (COURSE IN ENGLISH) – YEAR I

Number of hours per week (lectures/seminars, labs or bed-side teaching)

Subject	Winter semester (Credit/Examination)	Summer semester (Credit/Examination)	No. of EC
<b>Biophysics</b> MUDr. et MUDr. J. Beneš, Ph.D.	0	3/4 (C, E)	8
<b>Anatomy</b> Doc. RNDr. P. Fiala, CSc.	4/3 (C)	4/3 (C, E)	20
<b>Histology and Embryology</b> Prof. MUDr. M. Králíčková, Ph.D.	0	2/3 (C)	7
<b>Medical Chemistry</b> Doc. MUDr. J. Kotyza, CSc., Prof. MUDr. J. Racek, DrSc.	3/3 (C, E)	0	8
<b>Biology</b> Doc. RNDr. M. Pešta, Ph.D., Doc. Ing. J. Hatina, CSc.	2/2 (C)	2/3 (C, E)	9
<b>First Aid</b> MUDr. R. Pradl, Ph.D.	1/1 (C)	0	3
<b>Computer Technology</b> Mgr. Martin Navrátil	0/1 (C)	0	1
<b>Czech For Foreigners</b> Mgr. A. Holá	0/4 (C)	0/4 (C, E)	4
<b>Total no. of EC (European Credit System)</b>			<b>60</b>

Minimum no. of EC for enrollment in the 2<sup>nd</sup> year – 40.

Enrolling subjects of the 2<sup>nd</sup> year is possible under condition of fulfilling prerequisites.

Registering for 2<sup>nd</sup> year exams is also possible under condition of fulfilling prerequisites.

Subject name	Prerequisite for enrollment	Prerequisite for exam
Topographical Anatomy	Anatomy – C	Anatomy – C, E
Histology and Embryology II	Histology and Embryology I – C Anatomy – C	Histology and Embryology I – C Anatomy – C, E
Biochemistry	Medical Chemistry – C Biophysics – C Biology – C Anatomy – C	Medical Chemistry – C, E Biophysics – C, E Biology – C, E Anatomy – C, E
Physiology	Anatomy – C Histology and Embryology I – C Biology – C Computer Technology – C Biophysics – C	Anatomy – C, E Histology and Embryology I – C Biology – C, E Computer Technology – C Biophysics – C, E
Microbiology I	Biology – C Anatomy – C	



## GENERAL MEDICINE (COURSE IN ENGLISH) – YEAR II

Minimum No of EC for enrollment in the 2<sup>nd</sup> year – 40

Number of hours per week (lectures/seminars, labs or bed-side teaching)

Subject	Winter semester (Credit/Examination)	Summer semester (Credit/Examination)	No. of EC
<b>Topographical Anatomy</b> Doc. RNDr. P. Fiala, CSc.	2/4 (C, E)	0	6
<b>Biochemistry</b> Prof. MUDr. R. Černý, CSc., Prof. MUDr. J. Racek, DrSc.	2/4 (C)	4/4 (C, E)	14
<b>Physiology</b> Doc. MUDr. M. Štengl, Ph.D.	4/4 (C)	6/5 (C, E)	22
<b>Histology and Embryology</b> Prof. MUDr. M. Králíčková, Ph.D.	2/3 (C, E)	0	6
<b>Czech For Foreigners</b> Mgr. A. Holá	0/4 (C)	0/4 (C, E)	3
<b>Summer Practice: Nursing</b> Prof. MUDr. A. Skálová, CSc.	0	3 weeks (C)	3
<b>Microbiology I</b> RNDr. K. Fajfrlík, Ph.D.	0	0/2 (C)	2
<b>Core Elective Subjects</b>			4
<b>Total no. of EC (European Credit System)</b>			60

As the completion of courses of Biochemistry and Physiology are prerequisites for the courses of Pathology and Pathological Physiology, the **student who did not pass the examination in Biochemistry and/or Physiology in the second year cannot be enrolled in the third year. In this case the student can ask for an individual study plan (ISP).**

There are two options:

1. Extend the second year for two academic years and complete the missing courses (Biochemistry and/or Physiology). After completing of the missing courses, in the following academic year they would study all the courses of the 3<sup>rd</sup> year. In case of failure to pass the examination in Pathology or Pathophysiology in the 3<sup>rd</sup> year, the student can apply for a new ISP.
2. Extend the third year for two academic years. Student has to fulfil the minimum number of credits necessary for enrollment to the 3<sup>rd</sup> year. In this case they in the extended first academic year would study all the courses of the third year with the exception of Pathology and Pathological Physiology plus the missing course (Biochemistry or Physiology - credits in Biochemistry or Physiology has to be completed) and in the following second academic year Pathology and Pathological Physiology. **In case of failure to pass the examination in Pathology and/or Pathological Physiology in the second year of ISP, no other ISP can be granted and the study would be terminated.**

**Students can ask for Individual Study Plan only 2 times during the whole time of their study!**



Minimum no. of EC for enrollment in the 3<sup>rd</sup> year – 98.

Enrolling subjects of the 3<sup>rd</sup> year is possible under condition of fulfilling prerequisites.

Registering for 3<sup>rd</sup> year exams is also possible under condition of fulfilling prerequisites.

Subject name	Prerequisite for enrollment	Prerequisite for exam
Microbiology II	Microbiology I – C Histology and Embryology II – C Physiology – C	Microbiology I – C Histology and Embryology II – C, E Physiology – C, E
Pathology	Histology and Embryology II – C Biochemistry – C, E Topographical Anatomy – C Physiology – C, E	Histology and Embryology II – C, E Biochemistry – C, E Topographical Anatomy – C, E Physiology – C, E
Pathological Physiology	Histology and Embryology II – C Physiology – C, E Biochemistry – C, E	Histology and Embryology. II – C, E Physiology – C, E Biochemistry – C, E
Internal Medicine I	Topographical Anatomy – C Histology and Embryology II – C Biochemistry – C Physiology – C	
Medical Psychology	Histology and Embryology II – C Topographical Anatomy – C Biochemistry – C Physiology – C Microbiology – C Summer Practice – C	Histology and Embryology II – C, E Topographical Anatomy – C, E Biochemistry – C, E Physiology – C, E Microbiology I – C Summer Practice – C
Propedeutics of Internal Medicine	Topographical Anatomy – C Histology and Embryology II – C Biochemistry – C Physiology – C	Topographical Anatomy – C, E Histology and Embryology II – C, E Biochemistry – C, E Physiology – C, E
Pharmacology	Physiology – C Biochemistry – C Microbiology I – C	
Immunology	Biochemistry – C Physiology – C Histology and Embryology II – C	Biochemistry – C, E Physiology – C, E Histology and Embryology II – C, E

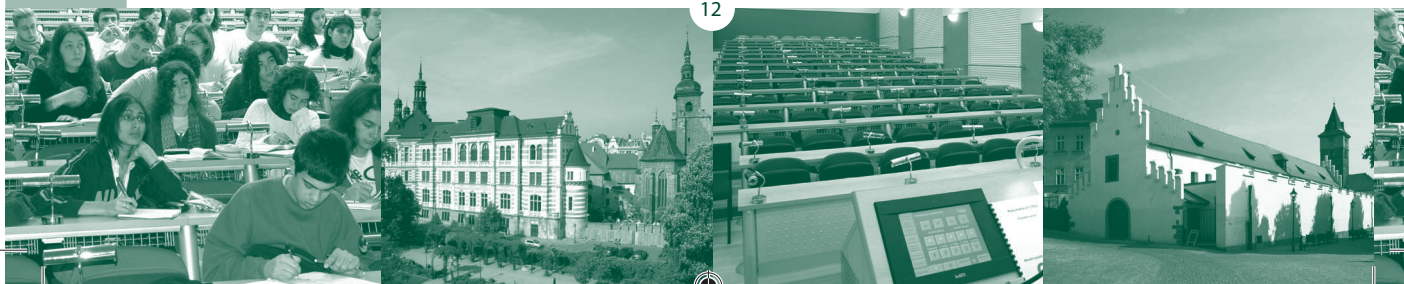


## GENERAL MEDICINE (COURSE IN ENGLISH) – YEAR III

Minimum no. of EC for enrollment in the 3<sup>rd</sup> year – 98

Number of hours per week (lectures/seminars, labs or bed-side teaching)

Subject	Winter semester (Credit/Examination)	Summer semester (Credit/Examination)	No. of EC
<b>Microbiology II</b> RNDr. K. Fajfrlík, Ph.D.	3/2 (C, E)	0	5
<b>Immunology</b> Prof MUDr. P. Panzner, CSc.	2/1 (C, E)	0	3
<b>Pathology</b> Prof. MUDr. A. Skálová, CSc., Prof. MUDr. M. Michal	5/3 (C)	4/3 (C, E)	17
<b>Pathological Physiology</b> Doc. MUDr. J. Cendelín, Ph.D.	2/3 (C)	3/4 (C, E)	13
<b>Pharmacology I</b> Doc. RNDr. E. Kmoníčková, CSc.	0	1/2 (C)	3
<b>Propedeutics of Internal Medicine</b> Prof. MUDr. M. Matějovič, Ph.D.	3/4 (C, E)	0	6
<b>Internal Medicine I</b> Prof. MUDr. M. Matějovič, Ph.D.	0	2/3 (C)	3
<b>Medical Psychology and Ethics</b> Doc. MUDr. J. Beran, CSc.	1/1 (C)	1/2 (C, E)	5
<b>Core Elective Subjects</b>			5
<b>Total no. of EC (European Credit System)</b>			60



Minimum No. of EC for enrollment in the 4<sup>th</sup> year – 179.

Enrolling subjects of the 4<sup>th</sup> year is possible under condition of fulfilling prerequisites.

Registering for 4<sup>th</sup> year exams is also possible under condition of fulfilling prerequisites.

Subject name	Prerequisite for enrollment	Prerequisite for exam
Dermatovenereology	Pathology – C, E Microbiology – C, E	Pathology – C, E Microbiology – C, E
Propedeutics of Surgery	Pathology – C, E Pathological Physiology – C, E Pharmacology – C	Pathology – C, E Pathological Physiology – C, E Pharmacology – C
Forensic Pathology	Microbiology – C, E Immunology – C, E Pathology – C, E Pathological Physiology – C, E Pharmacology – C Propedeutics of Internal Medicine – C, E	Microbiology – C, E Immunology – C, E Pathology – C, E Pathological Physiology – C, E Pharmacology – C Propedeutics of Internal Medicine – C, E
Radiology	Pathology – C, E Pathological Physiology – C, E	Pathology – C, E Pathological Physiology – C, E
Internal Medicine II	Microbiology – C, E Immunology – C, E Medical Psychology and Ethics – C, E Pathology – C, E Pathological Physiology – C, E Propedeutics of Internal Medicine – C, E	
Neurology	Microbiology – C, E Immunology – C, E Pathology – C, E Pathological Physiology – C, E Propedeutics of Internal Medicine – C, E Pharmacology – C	Microbiology – C, E Immunology – C, E Pathology – C, E Pathological Physiology – C, E Propedeutics of Internal Medicine – C, E Pharmacology – C
Pharmacology	Pathology – C, E Pathological Physiology – C, E Immunology – C, E Microbiology – C, E	Pathology – C, E Pathological Physiology – C, E Immunology – C, E Microbiology – C, E
Stomatology	Immunology – C, E Microbiology – C, E Pharmacology – C Pathology – C, E	Immunology – C, E Microbiology – C, E Pharmacology – C Pathology – C, E
Urology	Pathology – C, E Pathological Physiology – C, E	Pathology – C, E Pathological Physiology – C, E



## GENERAL MEDICINE (COURSE IN ENGLISH) – YEAR IV

Minimum no. of EC for enrollment in the 4<sup>th</sup> year – 179

Number of hours per week (lectures/seminars, labs or bed-side teaching)

Subject	Winter semester (Credit/Examination)	Summer semester (Credit/Examination)	No. of EC
<b>Pharmacology</b> Doc. RNDr. E. Kmoníčková, CSc.	4/2 (C, E)	0	9
<b>Internal Medicine II</b> Prof. MUDr. M. Matějovič, Ph.D.	2/3 (C)	2/3 (C)	8
<b>Neurology</b> MUDr. J. Polívka, CSc.	1/2 (C)	1/2 (C, E)	9
<b>Dermatovenereology</b> Prof. MUDr. K. Pizinger, CSc.	0	1/1.5 (C, E)	4
<b>Radiology And Nuclear Medicine</b> Prof. MUDr. B. Kreuzberg, CSc.	1/1 (C)	1/1 (C, E)	4
<b>Propedeutics of Surgery</b> Prof. MUDr. V. Třeška, DrSc.	2/2 (C, E)	0	4
<b>Surgery</b> Prof. MUDr. V. Třeška, DrSc.	0	2/3 (C)	3
<b>Stomatology</b> MUDr. D. Hrušák, Ph.D., Doc. MUDr. Antonín Zicha, CSc.	1/1 (C, E)	0	2
<b>Sports Medicine</b> Prof. MUDr. V. Zeman, CSc.	0	1/1 (C)	1
<b>Forensic Pathology</b> MUDr. J. Motlová, MUDr. et MUDr. M. Dvořák	0	1/1 (C, E)	3
<b>Urology</b> Prof. MUDr. M. Hora, Ph.D., MBA	0/1 (C)	1/1 (C, E)	3
<b>Summer Practice: Internal Medicine</b> Prof. MUDr. M. Matějovič, Ph.D., Prof. MUDr. J. Filipovský, CSc.	0	2 weeks (C)	3
<b>Summer Practice: Surgery</b> Prof. MUDr. V. Třeška, DrSc.	0	2 weeks (C)	3
<b>Core Elective Subjects</b>			5
<b>Total no. of EC (European Credit System)</b>			60

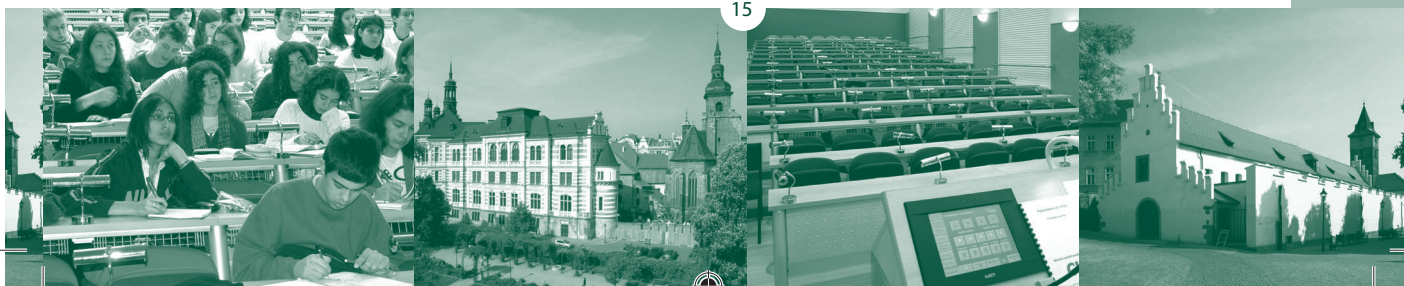


Minimum no. of EC for enrollment in the 5<sup>th</sup> year – 227.

Enrolling subjects of the 5<sup>th</sup> year is possible under condition of fulfilling prerequisites.

Registering for 5<sup>th</sup> year exams is also possible under condition of fulfilling prerequisites.

Subject name	Prerequisite for enrollment	Prerequisite for exam
Special Fields of Internal Medicine	Radiology – C Neurology – C Dermatovenereology – C Internal Medicine II – C Surgery – C	
Infectious Diseases	Neurology – C Dermatovenereology – C Internal Medicine II – C Surgery – C	Neurology – C, E Dermatovenereology – C, E Internal Medicine II – C Surgery – C
Epidemiology	Microbiology – C	Microbiology – C, E
Pediatrics	Pharmacology – C Radiology – C Propedeutics of Surgery – C	
Ophthalmology	Neurology – C	Neurology – C, E
Anaesthesiology – Resuscitation and Emergency Care	Pharmacology – C Propedeutics of Surgery – C	Pharmacology – C, E Propedeutics of Surgery – C, E
Clinical Oncology	Radiology – C Pharmacology – C Propedeutics of Surgery – C	Radiology – C, E Pharmacology – C, E Propedeutics of Surgery – C, E
Internal Medicine III	Pharmacology – C Radiology – C Summer Practice – C	
Neonatology	Pharmacology – C Radiology – C Propedeutics of Surgery – C	
Orthopaedics and Traumatology	Pharmacology – C Radiology – C Propedeutics of Surgery – C Internal Medicine II – C Neurology – C Surgery – C	Pharmacology – C, E Radiology – C, E Propedeutics of Surgery – C, E Internal Medicine II – C, E Neurology – C, E Surgery – C
Psychiatry	Pharmacology – C Neurology – C Dermatovenereology – C Forensic Pathology – C	Pharmacology – C, E Neurology – C, E Dermatovenereology – C, E Forensic Pathology – C, E
ENT	Propedeutics of Surgery – C	Propedeutics of Surgery – C, E
Public Health and Preventive Medicine	Pharmacology – C Radiology – C Propedeutics of Surgery – C Internal Medicine II – C Neurology – C Surgery – C	





## GENERAL MEDICINE (COURSE IN ENGLISH) – YEAR V

Clinical subjects of 5<sup>th</sup> year are organised as rotation blocks. Minimum no. of EC for enrollment in the 5<sup>th</sup> year – 227.

Subject	No. of hours/Year (Credit/Examination)	No. of EC
<b>Internal Medicine III</b> Prof. MUDr. J. Filipovský, CSc.	30 (C)	2
<b>Special Fields of Internal Medicine</b> MUDr. V. Machartová, Ph.D.	30 (C)	2
<b>Infectious Diseases</b> Doc. MUDr. D. Sedláček, CSc.	45 (C, E)	4
<b>Epidemiology</b> Prof. MUDr. P. Pazdiora, CSc.	30 (C, E)	2
<b>Pediatrics</b> Prof. MUDr. J. Sýkora, Ph.D.	50 (C)	5
<b>Neonatology</b> Doc. MUDr. J. Dort, Ph.D.	25 (C)	2
<b>Psychiatry</b> Doc. MUDr. J. Beran, CSc.	60 (C, E)	4
<b>Orthopaedics and Traumatology</b> Doc. MUDr. T. Pavelka, Ph.D.	60 (C, E)	5
<b>Obstetrics and Gynecology</b> Doc. MUDr. Z. Novotný, CSc.	90 (C)	6
<b>Ophthalmology</b> Doc. MUDr. R. Říčařová, CSc.	45 (C, E)	4
<b>ENT</b> MUDr. D. Slouka, Ph.D., MBA	45 (C, E)	4
<b>Anaesthesiology – Resuscitation and Emergency Care</b> MUDr. R. Prادل, Ph.D.	45 (C, E)	4
<b>Social Medicine and Biostatistics</b> Doc. MUDr. L. Čeledová, Ph.D.	30 (C)	1
<b>Public Health and Preventive Medicine</b> Doc. MUDr. D. Müllerová, Ph.D.	30 (C)	1
<b>Medical Genetics</b> MUDr. I. Šubrt	15 (C)	1
<b>Clinical Oncology</b> Prof. MUDr. J. Fínek, Ph.D.	45 (C, E)	4
<b>Clinical Biochemistry</b> Prof. MUDr. J. Racek, DrSc.	30 (C, E)	2
<b>Surgery</b> Prof. MUDr. V. Třeška, DrSc.	30 (C)	2
<b>Core Elective Subjects</b>		5
<b>Total no. of EC (European Credit System)</b>		60

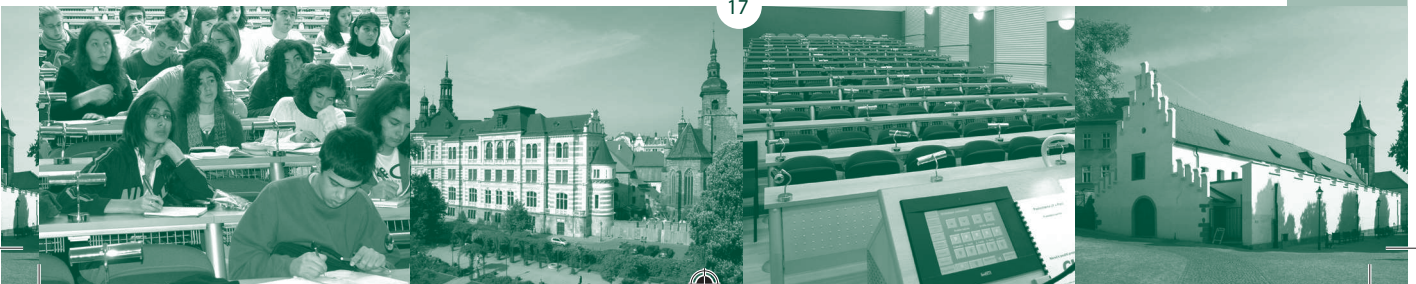


Minimum no. of EC for enrollment in the 6<sup>th</sup> year – 295.

Enrolling subjects of the 6<sup>th</sup> year is possible under condition of fulfilling prerequisites.

Registering for State exams is possible under condition of fulfilling prerequisites and successful completion of all the 5<sup>th</sup> year subjects.

Subject name	Prerequisite for enrollment	Prerequisite for exam
Internal Medicine IV	Internal Medicine III – C Special Fields of Internal Medicine – C Infectious Diseases – C Epidemiology – C Psychiatry – C Ophthalmology – C ENT – C Clinical Genetics – C Clinical Oncology – C Clinical Biochemistry – C Anaesthesiology – Resuscitation and Emerg. Care – C Orthopaedics and Traumatology – C	Internal Medicine III – C, E Special Fields of Internal Medicine – C, E Infectious Diseases- C, E Epidemiology – C, E Psychiatry – C, E Ophthalmology – C, E ENT – C, E Clinical Genetics – C, E Clinical Oncology – C, E Clinical Biochemistry – C, E Anaesthesiology – Resuscitation and Emerg. Care – C, E Orthopaedics and Traumatology – C, E
Obstetrics and Gynecology	Obstetrics and Gynecology – C Infectious Diseases- C Epidemiology – C Psychiatry – C Ophthalmology – C ENT – C Clinical Oncology – C Clinical Biochemistry – C Anaesthesiology – Resuscitation and Emerg. Care – C Orthopaedics and Traumatology – C	Obstetrics and Gynecology – C Infectious Diseases – C, E Epidemiology – C, E Psychiatry – C, E Ophthalmology – C, E ENT – C, E Clinical Oncology – C, E Clinical Biochemistry – C, E Anaesthesiology – Resuscitation and Emerg. Care – C, E Orthopaedics and Traumatology – C, E
Surgery	Surgery II – C Orthopaedics and Traumatology – C Anaesthesiology – Resuscitation and Emerg. Care – C Infectious Diseases – C, E Epidemiology – C, E Psychiatry – C Ophthalmology – C ENT – C Clinical Oncology – C Clinical Biochemistry – C	Surgery II – C Orthopaedics and Traumatology – C, E Anaesthesiology – Resuscitation and Emerg. Care – C, E Infectious Diseases – C, E Epidemiology – C, E Psychiatry – C, E Ophthalmology – C, E ENT – C, E Clinical Oncology – C, E Clinical Biochemistry – C, E
Pediatrics	Pediatrics I – C Neonatology – C Orthopaedics and Traumatology – C Anaesthesiology – Resuscitation and Emerg. Care – C Infectious Diseases – C Epidemiology – C Psychiatry – C Ophthalmology – C ENT – C Clinical Oncology – C Clinical Biochemistry – C	Pediatrics I – C Neonatology – C Orthopaedics and Traumatology – C, E Anaesthesiology – Resuscitation and Emerg. Care – C, E Infectious Diseases – C, E Epidemiology – C, E Psychiatry – C, E Ophthalmology – C, E ENT – C, E Clinical Oncology – C, E Clinical Biochemistry – C, E
Public and Occupational Medicine, Public Health, Social and Preventive Medicine	Public Health and Preventive Medicine – C Social Medicine and Biostatistics – C Orthopaedics and Traumatology – C Anaesthesiology – Resuscitation and Emerg. Care – C Infectious Diseases – C Epidemiology – C Psychiatry – C Ophthalmology – C ENT – C Clinical Oncology – C Clinical Biochemistry – C	Public Health and Preventive Medicine – C Social Medicine and Biostatistics – C Orthopaedics and Traumatology – C, E Anaesthesiology – Resuscitation and Emerg. Care – C, E Infectious Diseases – C, E Epidemiology – C, E Psychiatry – C, E Ophthalmology – C, E ENT – C, E Clinical Oncology – C, E Clinical Biochemistry – C, E



## GENERAL MEDICINE (COURSE IN ENGLISH) – YEAR VI

Clinical subjects of 6<sup>th</sup> year are organised as rotation blocks.

Minimum no. of EC for enrollment in the 6<sup>th</sup> year – 295.

Subject	Summer semester (Credit/State Examination)	No. of EC
<b>Internal Medicine IV</b> Prof. MUDr. M. Matějovič, Ph.D.	10 weeks (C, SE)	16
<b>Obstetrics and Gynecology</b> Doc. MUDr. Z. Novotný, CSc.	4 weeks (C, SE)	10
<b>Pediatrics</b> Prof. MUDr. J. Sýkora, Ph.D.	3 weeks (C, SE)	10
<b>Surgery</b> Prof. MUDr. V. Třeška, DrSc.	8 weeks (C, SE)	16
<b>Public and Occupational Medicine, Public Health, Social and Preventive Medicine</b> MUDr. V. Machartová, Ph.D., Doc. MUDr. D. Müllerová, Ph.D., Doc. Mudr. L. Čeledová, Ph.D.	3 weeks (C, SE)	8
<b>Total no. of EC (European Credit System)</b>		<b>60</b>

The student is to take the State Examination or its part within two years from the first day of the calendar month following the day on which they fulfilled the requirements for taking the State Examination or its part. The fulfilment of the requirements means the fulfilment of the last study requirement necessary for the admission to the given part of the State Examination.

If the student does not appear at the State Examination or its part within this time, it is assumed that the event stipulated in Article 17 (1) (b) of the Study and Examination Regulations of the Faculty of Medicine in Pilsen has occurred.



## DENTISTRY (COURSE IN ENGLISH) – YEAR I

Number of hours per week (lectures/seminars, labs or bed-side teaching)

Subject	Winter semester (Credit/Examination)	Summer semester (Credit/Examination)	No. of EC
<b>Anatomy</b> Doc. RNDr. P. Fiala, CSc.	4/3 (C)	4/3 (C, E)	18
<b>Biophysics</b> MUDr. et MUDr. J. Beneš, Ph.D.	2/2 (C, E)	0	8
<b>Chemistry</b> Doc. MUDr. J. Kotyza, CSc., Prof. MUDr. J. Racek, DrSc.	2/3 (C, E)	0	8
<b>Czech for Foreigners</b> Mgr. A. Holá	0/4 (C)	0/4 (C, E)	3
<b>Preclinical Dentistry I</b> MUDr. H. Hecová	2/4 (C)	2/4 (C)	9
<b>Informatics in Dentistry</b> Mgr. Martin Navrátil	0/1 (C)	0	2
<b>First Aid</b> MUDr. R. Pradl, Ph.D.	1/1 (C)	0	2
<b>Biochemistry I</b> Doc. MUDr. J. Kotyza, CSc., Prof. MUDr. J. Racek, DrSc.	0	2/1.5 (C)	4
<b>Biology and Genetics</b> Doc. RNDr. M. Pešta, Ph.D., Doc. MUDr. M. Ludvíková, Ph.D.	0	2/2 (C)	3
<b>Histology and Embryology</b> Prof. MUDr. M. Králíčková, Ph.D.	0	2/1 (C)	3
<b>Total no. of EC (European Credit System)</b>			<b>60</b>

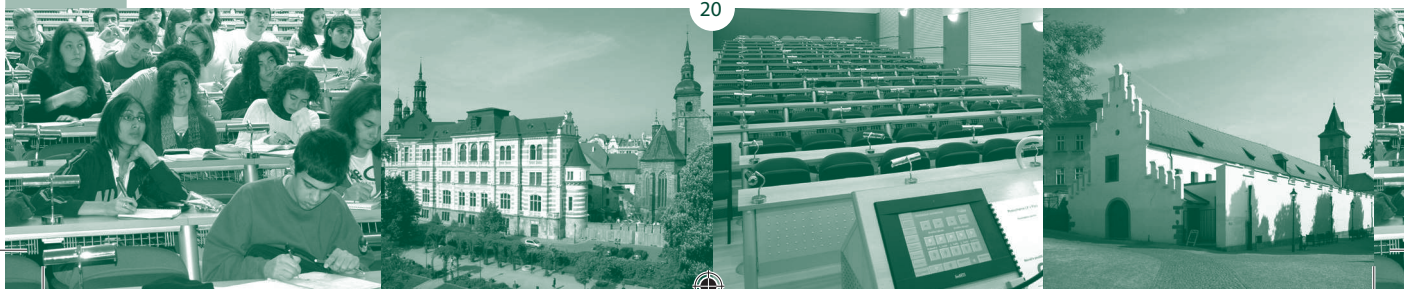


Minimum no. of EC for enrollment in the 2<sup>nd</sup> year – 42.

Enrolling subjects of the 2<sup>nd</sup> year is possible under condition of fulfilling prerequisites.

Registering for 2<sup>nd</sup> year exams is also possible under condition of fulfilling prerequisites.

Subject name	Prerequisite for enrollment	Prerequisite for exam
Preclinical Dentistry II	Biophysics – C Preclinical Dentistry I – C Anatomy – C Chemistry – C	Biophysics – C, E Preclinical Dentistry I – C Anatomy – C, E Chemistry – C, E
Histology and Embryology II	Anatomy – C Histology and Embryology I – C	Anatomy – C, E Histology and Embryology I – C
Physiology	Anatomy – C Histology and Embryology I – C Biology and Genetics I – C Informatics in Dentistry – C Biophysics – C	Anatomy – C, E Histology and Embryology I – C Biology and Genetics I – C, E Informatics in Dentistry – C Biophysics – C, E
Biology and Genetics II	Biophysics – C Anatomy – C Chemistry – C	Biophysics – C, E Anatomy – C, E Chemistry – C, E
Biochemistry II	Biophysics – C Chemistry – C Biology and Genetics I – C Biochemistry I – C Anatomy – C	Biophysics – C, E Chemistry – C, E Biology and Genetics I – C Biochemistry I – C Anatomy – C, E
Pathology and Oral Pathology I	Histology and Embryology I – C Anatomy – C Chemistry – C Biophysics – C	
Psychology and Communication with patient	Histology and Embryology I – C Chemistry – C Anatomy – C	
Clinical Dentistry I	Preclinical Dentistry I – C Anatomy – C Chemistry – C Biophysics – C	
Prosthetic Technology	Preclinical Dentistry I – C Biophysics – C	Preclinical Dentistry I – C Biophysics – C, E
Topographical Anatomy of the Head and Neck	Anatomy – C	Anatomy – C, E
Czech for Foreigners II	Czech for Foreigners I – C	Czech for Foreigners I – C, E



## DENTISTRY (COURSE IN ENGLISH) – YEAR II

Minimum no. of EC for enrollment in the 2<sup>nd</sup> year – 42.

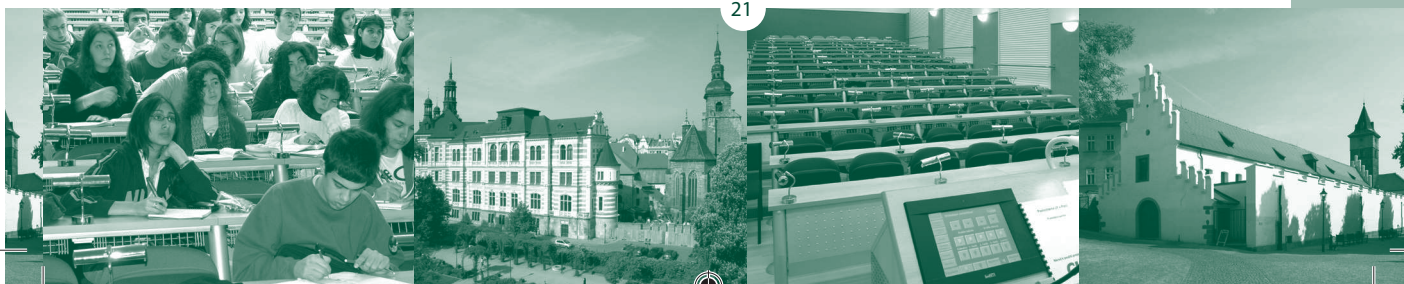
Number of hours per week (lectures/seminars, labs or bed-side teaching)

Subject	Winter semester (Credit/Examination)	Summer semester (Credit/Examination)	No. of EC
<b>Biochemistry II</b> Doc. MUDr. J. Kotyza, CSc., Prof. MUDr. J. Racek, DrSc.	2/1,5 (C, E)	0	6
<b>Histology and Embryology</b> Prof. MUDr. M. Králíčková, Ph.D.	1/3 (C, E)	0	3
<b>Physiology</b> Doc. MUDr. M. Štengl, Ph.D.	3/3 (C)	3/3 (C, E)	16
<b>Biology and Genetics II</b> Doc. RNDr. M. Pešta, Ph.D., Doc. MUDr. M. Ludvíková, Ph.D.	2/2 (C, E)	0	5
<b>Pathology and Oral Pathology</b> Prof. MUDr. A. Skálová, CSc., MUDr. P. Mukenšnabl, Ph.D.	0	2/2 (C)	3
<b>Preclinical Dentistry II</b> MUDr. H. Hecová, MUDr. M. Šafářová	2/4 (C)	2/1 (C, E)	12
<b>Prosthetic Technology</b> MUDr. M. Šafářová, Doc. MUDr. A. Zicha, CSc.	0	1/5 (C, E)	2
<b>Preventive Dentistry</b> MUDr. J. Stehlíková, Prof. MUDr. J. Kilian, DrSc.	2/0	0	0
<b>Psychology and Ethics</b> Doc. MUDr. J. Beran, CSc.	0/1 (C)	0	1
<b>Clinical Dentistry I</b> MUDr. J. Stehlíková	0	0/2 (C)	2
<b>Topographical Anatomy of the Head and Neck</b> Doc. RNDr. P. Fiala, CSc.	0	1/2 (C, E)	3
<b>Czech for Foreigners</b> Mgr. A. Holá	0/4 (C)	0/4 (C)	1
<b>Summer Practice</b> MUDr. H. Hecová, Doc. MUDr. A. Zicha, CSc.	0	1 week (C)	1
<b>Core Elective Subjects</b>			5
<b>Total no. of EC (European Credit System)</b>			60

As the completion of courses of Biochemistry and Physiology are prerequisites for the courses of Pathology and Pathological Physiology, the **student who did not pass the examination in Biochemistry and/or Physiology** in the second year **cannot be enrolled in the third year. In this case the student can ask for an individual study plan (ISP).**

There are two options:

1. Extend the second year for two academic years and complete the missing courses (Biochemistry and/or Physiology). After completing of the missing courses, in the following academic year they would study all the courses of the 3rd year. In case of failure to pass the examination in Pathology or Pathophysiology in the 3rd year, the student can apply for a new ISP.
2. Extend the third year for two academic years. Student has to fulfil the minimum number of credits necessary for enrollment to the 3rd year. In this case they in the extended first academic year would study all the



courses of the third year with the exception of Pathology and Pathological Physiology plus the missing course (Biochemistry or Physiology - credits in Biochemistry or Physiology has to be completed) and in the following second academic year Pathology and Pathological Physiology. **In case of failure to pass the examination in Pathology and/or Pathological Physiology in the second year of ISP, no other ISP can be granted and the study would be terminated.**

**Students can ask for Individual Study Plan only 2 times during the whole time of their study!**



Minimum no. of EC for enrollment in the 3<sup>rd</sup> year – 104.

Enrolling subjects of the 3<sup>rd</sup> year is possible under condition of fulfilling prerequisites.

Registering for 3<sup>rd</sup> year exams is also possible under condition of fulfilling prerequisites.

Subject name	Prerequisite for enrollment	Prerequisite for exam
Pharmacology	Topographical Anatomy of the Head and Neck – C Physiology – C Histology and Embryology II – C Biology and Genetics II – C Biochemistry II – C	Topographical Anatomy of the Head and Neck – C, E Physiology – C, E Histology and Embryology II – C, E Biology and Genetics II – C, E Biochemistry II – C, E
Microbiology	Histology and Embryology II – C Biochemistry II – C Physiology – C	Histology and Embryology II – C, E Biochemistry II – C, E Physiology – C, E
Immunology	Biochemistry II – C Histology and Embryology II – C Physiology – C	Biochemistry II – C, E Histology and Embryology II – C, E Physiology – C, E
Pathology and Oral Pathology II	Histology and Embryology II – C Physiology – C, E Biochemistry II – C, E Topographical Anatomy of the Head and Neck – C	Histology and Embryology II – C, E Physiology – C, E Biochemistry II – C, E Topographical Anatomy of the Head and Neck – C, E
Pathological Physiology	Histology and Embryology II – C Physiology – C, E Biochemistry II – C, E	Histology and Embryology II – C, E Physiology – C, E Biochemistry II – C, E
Internal Medicine I	Topographical Anatomy of the Head and Neck – C Histology and Embryology II – C Biochemistry II – C Physiology – C	Histology and Embryology II – C, E Biology and Genetics II – C, E Preclinical Dentistry II – C, E
Oral Biology	Histology and Embryology II – C Biology and Genetics II – C Preclinical Dentistry II – C, E Preventive Dentistry – C	
Psychiatry	Psychology and Ethics – C Biochemistry II – C Physiology – C	Psychology and Ethics – C Biochemistry II – C, E Physiology – C, E
Clinical Dentistry II	Preclinical Dentistry II – C, E Preventive Dentistry – C Prosthetic Technology – C	
Dental Radiology	Preclinical Dentistry II – C, E Prosthetic Technology – C Topographical Anatomy of the Head and Neck – C	Preclinical Dentistry II – C, E Prosthetic Technology – C, E Topographical Anatomy of the Head and Neck – C, E
Czech for Foreigners – Terminology in Dental Practice	Czech for Foreigners – C	Czech for Foreigners – C





## DENTISTRY (COURSE IN ENGLISH) – YEAR III

Minimum no. of EC for enrollment in the 3<sup>rd</sup> year – 104.

Number of hours per week (lectures/seminars, labs or bed-side teaching)

Subject	Winter semester (Credit/Examination)	Summer semester (Credit/Examination)	No. of EC
<b>Clinical Dentistry II</b> MUDr. L. Hostička, Doc. MUDr. A. Zicha, CSc.	0/6 (C)	0/6 (C)	9
<b>Conservative Dentistry and Endodontics</b> Doc. MUDr. E. Záhlová, CSc., MUDr. J. Netolický, Ph.D.	1/0	1/0	0
<b>Dental Radiology</b> MUDr. R. Houba, Ph.D., Doc. MUDr. A. Zicha, CSc.	1/1 (C, E)	0	6
<b>Immunology</b> Prof. MUDr. P. Panzner, CSc.	0	0/1 (C, E)	2
<b>Internal Medicine</b> Prof. MUDr. J. Filipovský, CSc.	0	3/2 (C)	4
<b>Oral and Maxillofacial Surgery</b> MUDr. R. Houba, Ph.D., Doc. MUDr. A. Zicha, CSc.	1/0	1/0	0
<b>Oral Biology</b> Doc. MUDr. P. Poleník, CSc., Doc. MUDr. A. Zicha, CSc.	0	1/0 (C, E)	2
<b>Pathological Physiology</b> Doc. MUDr. J. Cendelín, Ph.D.	0	2/2 (C, E)	7
<b>Pathology and Oral Pathology II</b> Prof. MUDr. A. Skálová, CSc., MUDr. P. Mukenšabl, Ph.D.	2/2 (C, E)	0	10
<b>Pharmacology</b> Doc. RNDr. E. Kmoníčková, CSc., MUDr. M. Bludovská, Ph.D.	2/1 (C)	2/1 (C, E)	6
<b>Psychiatry</b> Doc. MUDr. J. Beran, CSc.	1/1 (C, E)	0	3
<b>Microbiology</b> RNDr. K. Fajfrlík, Ph.D.	2/2 (C, E)	0	3
<b>Summer Practice</b> MUDr. H. Hecová	0	2 weeks (C)	1
<b>Prosthodontics</b> MUDr. E. Cimbura, CSc., Doc. MUDr. A. Zicha, CSc.	1/0	1/0	0
<b>Czech for Foreigners – Terminology in Dental Practice</b> Mgr. A. Holá	0/3 (C, E)	0	2
<b>Core Elective Subjects</b>			5
<b>Total no. of EC (European Credit System)</b>			60

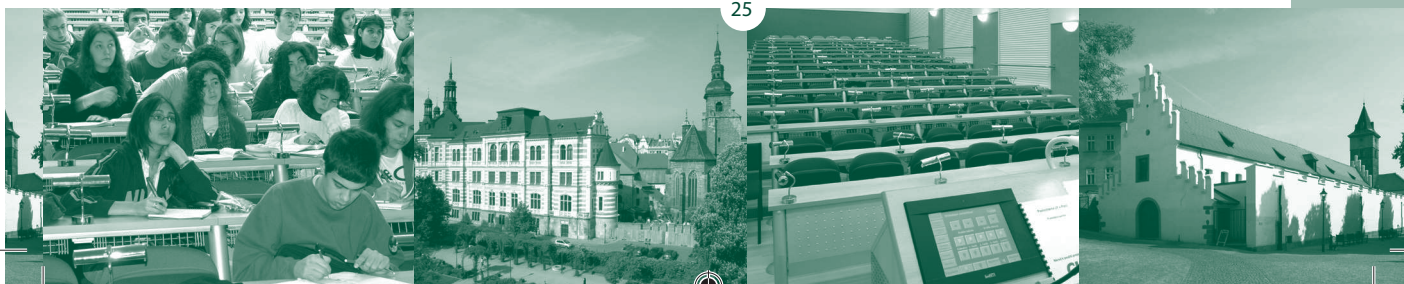


Minimum No. of EC for enrollment in the 4<sup>th</sup> year – 179.

Enrolling subjects of the 4<sup>th</sup> year is possible under condition of fulfilling prerequisites.

Registering for 4<sup>th</sup> year exams is also possible under condition of fulfilling prerequisites.

Subject name	Prerequisite for enrollment	Prerequisite for exam
Dermatovenereology	Pathology and Oral Pathology II – C Pathological Physiology – C Microbiology – C Immunology – C	Pathology and Oral Pathology II – C, E Pathological Physiology – C, E Microbiology – C, E Immunology – C, E
Surgery	Pathology and Oral Pathology II – C Physiology – C Pharmacology – C	
Infectious Diseases and Epidemiology	Microbiology – C, E Pathological Physiology – C, E Immunology – C, E	Microbiology – C, E Pathological Physiology – C, E Immunology – C, E
Neurology	Microbiology – C, E Immunology – C, E Pharmacology – C, E Pathology and Oral Pathology II – C, E Pathological Physiology – C, E	Microbiology – C, E Immunology – C, E Pharmacology – C, E Pathology and Oral Pathology II – C, E Pathological Physiology – C, E
Ophthalmology	Pharmacology – C, E Pathological Physiology – C, E Pathology and Oral Pathology II – C, E	Pharmacology – C, E Pathological Physiology – C, E Pathology and Oral Pathology II – C, E
Pediatrics	Pathology and Oral Pathology II – C, E Pathological Physiology – C, E Pharmacology – C, E Immunology – C, E Microbiology – C, E	Pathology and Oral Pathology II – C, E Pathological Physiology – C, E Pharmacology – C, E Immunology – C, E Microbiology – C, E
Obstetrics and Gynecology	Pathology and Oral Pathology II – C, E Pathological Physiology – C, E Microbiology – C, E Pharmacology – C, E	Pathology and Oral Pathology II – C, E Pathological Physiology – C, E Microbiology – C, E Pharmacology – C, E
Conservative Dentistry and Endodontics	Clinical Dentistry II – C Dental Radiology – C, E	Clinical Dentistry II – C Dental Radiology – C, E
Clinical Dentistry	Clinical Dentistry II – C	
Internal Medicine II	Microbiology – C, E Immunology – C, E Pathology and Oral Pathology II – C, E Pathological Physiology – C, E Pharmacology – C, E	Microbiology – C, E Immunology – C, E Pathology and Oral Pathology II – C, E Pathological Physiology – C, E Pharmacology – C, E
Oral and Maxillofacial Surgery	Clinical Dentistry II – C Dental Radiology – C, E Pathology and Oral Pathology II – C, E	Clinical Dentistry II – C Dental Radiology – C, E Pathology and Oral Pathology II – C, E
Prosthodontics	Prosthetic Technology – C, E Clinical Dentistry II – C Dental Radiology – C, E	Prosthetic Technology – C, E Clinical Dentistry II – C Dental Radiology – C, E
Parodontology	Clinical Dentistry II – C Oral Biology – C, E	Clinical Dentistry II – C Oral Biology – C, E



## DENTISTRY (COURSE IN ENGLISH) – YEAR IV

Minimum no. of EC for enrollment in the 4<sup>th</sup> year – 179

Number of hours per week (lectures/seminars, labs or bed-side teaching)

Subject	Winter semester (Credit/Examination)	Summer semester (Credit/Examination)	No. of EC
<b>Dermatovenereology</b> Prof. MUDr. K. Pizinger, CSc.	1/1 (C, E)	0	3
<b>Internal Medicine</b> Prof. MUDr. M. Matějovič, Ph.D.	2/2 (C)	2/2 (C, E)	3
<b>Infectious Diseases and Epidemiology</b> Doc. MUDr. D. Sedláček, CSc., Doc. MUDr. P. Pazdiora, CSc.	1/1 (C, E)	0	2
<b>Neurology</b> MUDr. J. Polívka, CSc.	2/1 (C, E)	0	3
<b>Ophthalmology</b> Doc. MUDr. R. Říčařová, CSc.	1/1 (C, E)	0	2
<b>Clinical Dentistry</b> MUDr. P. Andrlé, MUDr. L. Hauer	0/12 (C)	0/18 (C)	9
<b>Prosthodontics</b> MUDr. E. Cimbura, CSc., Doc. MUDr. A. Zicha, CSc.	1/0	1/0 (C, E)	3
<b>Oral and Maxillofacial Surgery</b> MUDr. R. Houba, Ph.D., Doc. MUDr. A. Zicha, CSc.	1/0	1/0 (C, E)	7
<b>Conservative Dentistry and Endodontics</b> Doc. MUDr. E. Záhlová, CSc., Doc. MUDr. A. Zicha, CSc.	1/0 (C, E)	0	8
<b>Orthodontics</b> MUDr. J. Tichý, MUDr. J. Oulická	1/0	1/0	0
<b>Pediatric Dentistry</b> Doc. MUDr. V. Merglová, CSc., Doc. MUDr. A. Zicha, CSc.	2/0	0	0
<b>Pediatrics</b> Prof. MUDr. J. Sýkora, Ph.D.	0	1/1 (C, E)	4
<b>Obstetrics and Gynecology</b> Doc. MUDr. Z. Novotný, CSc.	0	1/1 (C, E)	2
<b>Parodontology</b> Doc. MUDr. P. Poleník, CSc., Doc. MUDr. A. Zicha, CSc.	0	1/0 (C, E)	3
<b>Stomatological Practice</b> MUDr. H. Hecová	0	4 weeks (C)	2
<b>Surgery</b> Prof. MUDr. V. Třeška, DrSc.	2/2 (C)	2/2 (C)	4
<b>Core Elective Subjects</b>			5
<b>Total no. of EC (European Credit System)</b>			60



Minimum no. of EC for enrollment in the 5<sup>th</sup> year – 229.

Enrolling subjects of the 5<sup>th</sup> year is possible under condition of fulfilling prerequisites.

Registering for 5<sup>th</sup> year exams is also possible under condition of fulfilling prerequisites

Subject name	Prerequisite for enrollment	Prerequisite for exam
Anaesthesiology	Pharmacology – C Surgery – C Neurology – C	Pharmacology – C, E Surgery – C Neurology – C, E
Pediatric Dentistry SE	Clinical Dentistry – C	Clinical Dentistry – C Anaesthesiology – C, E Forensic Dentistry – C, E Surgery – C, E Ear, Nose and Throat Diseases – C, E Public Health Medicine – C, E All subjects of the 4 <sup>th</sup> year
Surgery	Pharmacology – C Neurology – C Infectious Diseases and Epidemiology – C	Pharmacology – C, E Neurology – C, E Infectious Diseases and Epidemiology – C, E
Clinical DentistryV.	Clinical Dentistry – C	Clinical Dentistry – C
Conservative Dentistry and Endodontics SE	Conservative Dentistry and Endodontics – C, E Clinical Dentistry – C	Conservative Dentistry and Endodontics – C, E Clinical Dentistry – C Anaesthesiology – C, E Surgery – C, E Public Health Medicine – C, E Ear, Nose and Throat Diseases – C, E Forensic Dentistry – C, E All subjects of the 4 <sup>th</sup> year
Oral and Maxillofacial Surgery SE	Clinical Dentistry – C Oral and Maxillofacial Surgery – C, E	Clinical Dentistry – C Oral and Maxillofacial Surgery – C, E Anaesthesiology – C, E Ear, Nose and Throat Diseases – C, E Forensic Dentistry – C, E Surgery – C, E Public Health Medicine – C, E All subjects of the 4 <sup>th</sup> year
Ear, Nose and Throat Diseases	Infectious Diseases and Epidemiology – C Pharmacology – C	Infectious Diseases and Epidemiology – C, E Pharmacology – C, E
Orthodontics SE	Clinical Dentistry – C	Clinical Dentistry – C Anaesthesiology – C, E Ear, Nose and Throat Diseases – C, E Forensic Dentistry – C, E Surgery – C, E Public Health Medicine – C, E All subjects of the 4 <sup>th</sup> year
Parodontology SE	Oral Biology – C, E	Oral Biology – C, E Anaesthesiology – C, E Ear, Nose and Throat Diseases – C, E Forensic Dentistry – C, E Surgery – C, E Public Health Medicine – C, E Clinical Dentistry – C Parodontology – C, E All subjects of the 4 <sup>th</sup> year



Subject name	Prerequisite for enrollment	Prerequisite for exam
Prosthodontics SE	Clinical Dentistry – C Prosthodontics – C, E	Clinical Dentistry – C Prosthodontics – C, E Anaesthesiology – C, E Ear, Nose and Throat Diseases – C, E Forensic Dentistry – C, E Surgery – C, E Public Health Medicine – C, E All subjects of the 4 <sup>th</sup> year
Forensic Dentistry	Pathology and Oral Pathology – C Clinical Dentistry – C Dental Radiology – C	Pathology and Oral Pathology – C, E Clinical Dentistry – C Dental Radiology – C, E



## DENTISTRY (COURSE IN ENGLISH) – YEAR V

Minimum no. of EC for enrollment in the 5<sup>th</sup> year – 229.

Number of hours per week (lectures/seminars, labs or bed-side teaching)

Subject	Winter semester (Credit/Examination)	Summer semester (Credit/Examination/ State Examination)	No. of EC
<b>Anaesthesiology</b> MUDr. R. Pradl, Ph.D.	1/1 (C, E)	0	4
<b>Surgery</b> Prof. MUDr. V. Třeška, DrSc.	1/2 (C, E)	0	6
<b>Management in Dentistry</b> MUDr. R. Houba, Ph.D., Doc. MUDr. A. Zicha, CSc.	0/1 (C)	0	1
<b>Ear, Nose and Throat Diseases</b> MUDr. D. Slouka, Ph.D., MBA	2/1 (C, E)	0	4
<b>Public Health and Social Medicine</b> Doc. MUDr. D. Müllerová, Ph.D., Doc. MUDr. L. Čeledová, Ph.D.	1/1 (C, E)	0	2
<b>Clinical Dentistry</b> MUDr. H. Hecová, Doc. MUDr. A. Zicha, CSc.	2/18 (C)	2/6 (C)	10
<b>Oral Health Medicine</b> Doc. MUDr. P. Poleník, CSc.	1/1 (C)	0	2
<b>Parodontology</b> Doc. MUDr. P. Poleník, CSc.	0	0/2 (C, SE)	5
<b>Prosthodontics</b> MUDr. E. Cimbura, CSc., Doc. MUDr. A. Zicha, CSc.	0	0/2 (C, SE)	5
<b>Pediatric Dentistry</b> Doc. MUDr. V. Merglová, CSc.	0	0/2 (C, SE)	5
<b>Oral and Maxillofacial Surgery</b> MUDr. R. Houba, Ph.D., Doc. MUDr. A. Zicha, CSc.	3/0	0/2 (C, SE)	5
<b>Orthodontics</b> MUDr. J. Tichý, MUDr. J. Oulická	0	0/2 (C, SE)	5
<b>Conservative Dentistry and Endodontics</b> Doc. MUDr. E. Záhlová, CSc., MUDr. H. Hecová	0	0/2 (C, SE)	5
<b>Forensic Dentistry</b> Doc. MUDr. H. Kvapilová, MUDr. et MUDr. M. Dvořák	0.5/0.5 (C, E)	0	1
<b>Total no. of EC (European Credit System)</b>			<b>60</b>

The student is to take the State Examination or its part within two years from the first day of the calendar month following the day on which they fulfilled the requirements for taking the State Examination or its part. The fulfilment of the requirements means the fulfilment of the last study requirement necessary for the admission to the given part of the State Examination.

If the student does not appear at the State Examination or its part within this time, it is assumed that the event stipulated in Article 17 (1) (b) of the Study and Examination Regulations of the Faculty of Medicine in Pilsen has occurred.



# CORE ELECTIVE SUBJECTS

## 2<sup>nd</sup> YEAR CORE ELECTIVE SUBJECTS

### 1. Methods in Tissue culture and Microscopy – for General Medicine students only

Doc. Ing. J. Hatina, CSc., As. Dr. L. Hájková, Ph.D. / Department of Biology

Summer term / 6 hours / 3 credits

Min. no. of students: 5 / Max. no. of students: 12

### 2. Beta-Glucan as a natural immunomodulator

Visiting professor: Prof. Václav Větvička (University of Louisville – Dept. of Pathology, KY, USA) / Department of Histology and Embryology

Winter term / 2 hours / 1 credits

Min. no. of students: 5 / Max. no. of students: 80

### 3. Post-fertilization Sperm Mithography: The Tale of Mitochondrial Eve and Steve

Ing. Peter Sutovsky, Ph.D., Dr.h.c., Prof. MUDr. Milena Králíčková, Ph.D. / Department of Histology and Embryology

Summer term / 2 hours / 1 credit (granted based on the attendance)

Min. no. of students: 5 / Max. no. of students: 100

The most recent knowledge of reproductive medicine and the utilization of these knowledge in clinical routine of assisted reproductive technologies. The lecture will be dealing with fertilization of oocyte, early embryonic development including elimination of paternal mitochondria and the medical significance of the phenomenon, i.e. issue of mitochondrial diseases and options how to prevent them.

### 4. Selected Topics in Medical Physiology

Doc. MUDr. Milan Štengl, Ph.D. / Department of Physiology

Winter term / 4 hours / 2 credits (granted based on the attendance)

Min. no. of students: 5 / Max no of students: 80

The subject will deepen the understanding in some special areas of Medical Physiology, especially those related to the current research activities of Dept. of Physiology. Special emphasis will be given to cardiovascular physiology, the autonomic regulation of cardiovascular system, mitochondrial physiology and molecular biology in physiological research.

### 5. Reproductive Medicine – news in the field of infertility

Prof. MUDr. Milena Králíčková, Ph.D. / Department of Histology and Embryology

Winter term / 2 hours / 1 credit

Min. no. of students: 5 / Max. no. of Students: 80

### 6. Blood, Blood Components

MUDr. Věra Křížková, Ph.D. / Department of Histology and Embryology

Summer term / 2 hours / 2 credits

Min. no. of students: 3 / Max. no. of students: 70

The aim of the subject is to focus on morphological characteristics of blood components and histological description with clinical references. In the introductory part we would like to present the evolutionary point of view and mention hemopoiesis and selected types of blood disorders. In clinical notes we would draw attention to an application of the knowledge in subsequent branches of study.

Recommended Literature:

- Gulati G., Caro J.: Blood Cells; an Atlas of Morfology with clinical relevance. American Society for Clinical Pathology Press, Hong Kong 2011
- Kierszenbaum A.L., Tres L.L.: Histology and cell biology. Third Edition. Elsevier Saunders, Philadelphia, USA, 2012: 169-201
- Mills S.E.: Histology for Pathologists. Lippincott, Williams & Wilkins 2007:799-836
- Mescher A.L.: Junqueira's Basic Histology (text & atlas), Twelfth Edition, International Edition 2010: 203-225
- Ovale W.K., Nahirney P.C.: Netter's Essentials Histology. Saunders Elsevier, Philadelphia 2008: 157-172

### 7. Student Research Activity

Various supervisors – researchers of the Faculty of Medicine in Pilsen

Winter term / 30 hours / Summer term / 30 hours / 8 credits

Number of students: on individual basis



Student research activities at the theoretical, clinical and research departments of the Faculty of Medicine in Pilsen under supervision of the researchers. Introduction to the methods of scientific work, participation in research projects of the departments.

Presentation of the results at the Student Scientific Conference of the Faculty of Medicine in Pilsen.

## 8. Histological Slides

Doc. MUDr. Mgr. Zbyněk Tonar, Ph.D. / Department of Histology

Winter term / 2 hours / 1 credit

Min. no. of students: 5 / Max no. of students: 160

Students will be guided through the description of a number of examples of unlabeled histological slides. First, we will revise the practical identification of the basic types of tissues known from general histology. Second, we will explain several strategies useful for a systematic description of slides in microscopic anatomy of various organ systems. Third, the students will be offered a short quiz to test their knowledge on slides identification.

## 9. Molecules of Life and Mutations

This subject is taught in Prague at the Faculty of Science Professor Siegfried Schwarz, M.D. / Medical University Innsbruck/Austria

Doc. Ing. Jiří Hatina, CSc. / Department of Biology, Faculty of Medicine in Pilsen

RNDr. Karel Drbal, Ph.D. / Department of Cell Biology / Faculty of Science

Summer term / 15 hours / 4 credits

Min. no. of students: 5 / Max. no. of students: 80

This lecture intends to give introductory information to a practical course in which attendees are instructed how to use a particular molecular modelling software (RasMol) in order to display 3D structures (as deposited in the PDB) of proteins, alone or in interaction with small or large ligands such as drugs or DNA or other proteins. This course is based on a published textbook of the author: Molecules of Life and Mutation (Karger, Basel 2002), in which structures of 150 "most important" molecules are displayed. This lecture is followed by a hands-on course in a PC room where attendees will receive a detailed step-by-step description for performing this part as well as "homework". A further homework will be to elaborate certain, individually assigned molecule and disease and to prepare a short lecture and an outline in Word and Power Point, respectively.

Recommended books:

- A. L. Kierszenbaum: Histology and Cell Biology, An Introduction to Pathology. Mosby, London 2002;
- A. M. Baker: Vascular Disease, Molecular Biology and gene therapy protocols, Humana Press, Totowa, New Jersey 1999;
- N. Sakalihasan: Aortic Aneurysms. Les Éditions de l'Université de Liège 2008;
- V. Kumar: Robbins and Cotran Pathological Basis of Disease. 7th Edition. Elsevier Saunders 2005

## 10. Development and Morphology of the Selected Sensory Organs (the organs of vision, hearing, equilibrium, olfaction, and taste)

MUDr. Věra Křížková, Ph.D., Mgr. Pavel Němec, Ph.D. / Department of Histology and Embryology

Summer term / 9 hours / 4 credits

Min. no. of students: 3 / Max. no. of students: 80

The aim of the subject is to acquaint the students of the Faculty of Medicine with phylogenetics and ontogenetics of the selected sensory organs and as a follow-up to the development to focus on morphological characteristics and histological description with clinical references. In the introductory part we would like to present the evolutionary point of view and mention various types of receptors appearing in some animals. Then we would focus on prenatal development of the selected sensory organs in humans in comparison with some animals. The aim is to connect findings in embryology and histology with anatomy. In clinical notes we would draw attention to an application of the knowledge in subsequent branches of study.

## 11. Cytogenetics – view from laboratory praxis

RNDr. Pavel Dvořák / Department of Biology

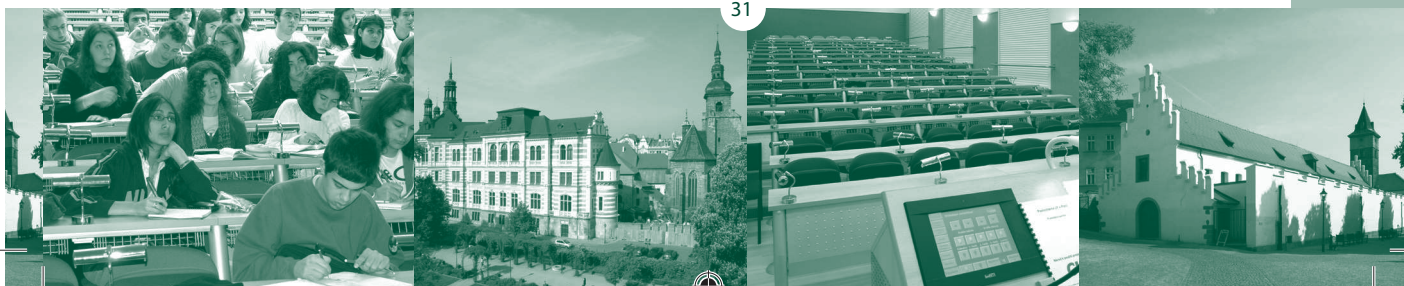
Summer term / 4 hours / 2 credits

Min. no. of students: 5 / Max. no. of students: 50

Present problems from the areas of prenatal, postnatal and cancer cytogenetics will be discussed and examples from the praxis overlapping to different medical disciplines will be solved.

Basic literature:

- Nussbaum RL, McInnes RR, Willard HF, et al. Thompson and Thompson Genetics in Medicine. Saunders, 2004, 444 p.





- Huret J. L., et al. Atlas of Genetic and Cytogenetics in Oncology and Haematology [online]. <<http://atlasgeneticsoncology.org/>>.
- Mitelman F., Johansson B., Mertens F., et al. Mito 1man Database of Chromosome Aberrations and Gene Fusions in Cancer [online]. <<http://cgap.ncl.nih.gov/Chromosomes/Mitelman>>

## 12. Corrosion Casts in Anatomy

MUDr. Lada Eberlová, Ph.D. / Department of Anatomy

Summer term / 6 hours / 2 credits

Min. no. of students: 5 / Max. no. of students: 15

Anatomical corrosion casts provide 3-D insights into the arrangement of hollow structures and organ cavities at both the macro- and microscopic levels. The elective subject Corrosion casts in anatomy comprises 2 sessions (by 3-hour practicals). Within the first the participants will be practically introduced the corrosion casting method, the second seminar is held at the Dpt of Physics (University of West Bohemia, Pilsen) where a piece of a corrosion cast will be examined and the principals of electron microscopy will be demonstrated.



### 3<sup>rd</sup> YEAR CORE ELECTIVE SUBJECTS

#### 1. Clinical, Histopathological and Molecular Genetic Features of Selected Inherited Syndromes

Doc. MUDr. Dmitry V. Kazakov, CSc. / Department of Pathology

Summer term / 6 hours / 3 credits

Min. no. of students: 5 / Max. no. of students: 90

The lecture addresses the clinicopathological features and molecular biology of selected inherited syndromes, including Brooke-Spiegler syndrome, Carney complex, Muir-Torre syndrome, Gardner syndrome, Birt-Hogg-Dube syndrome, neurofibromatosis, Cowden syndrome, Gorlin syndrome, tuberous sclerosis, TSC2/PKD1 contiguous gene syndrome and Albright hereditary osteodystrophy. All of the above conditions manifest cutaneous lesions as well as benign or malignant tumors in internal organs. Some of them may just have a "cosmetic" significance, whereas others represent life-threatening conditions: ergo, their recognition is of a paramount importance for every physician.

#### 2. Significance of Early Detection of Precursor Lesions and In Situ Breast Carcinoma

Prof. MUDr. Alena Skálová, CSc. / Department of Pathology

Summer term / 6 hours / 3 credits

Min. no. of students: 5 / Max. no. of students: 90

This lecture addresses clinicopathological features of precursor lesions and non-invasive breast carcinomas. Significance of early detection of such lesions will be discussed. Molecular and genetic background of breast cancer classification will be also presented.

#### 3. New Aspects of Tumor Pathobiology

Doc. MUDr. Marie Ludvíková, Ph.D., Doc. RNDr. Martin Pešta, Ph.D. / Department of Biology

Summer term / 8 hours / 4 credits

Min. no. of students: 5 / Max. no. of students: 20

In this course will be introduced molecular basis of neoplastic transformation with focus on several biological principles such as epigenetic changes, RNA interference, DNA repair, epithelial-mesenchymal transition, and cancer stem cell formation. All these phenomena, along with genetic changes, play the important role in the pathobiology and therapy of tumors. Two seminar sections and demonstration of selected methods in genetic lab are planned.

#### 4. Czech for Medical Practice in Hospital

PhDr. Tamara Kopřivová / Department of Languages

Winter term / 20 hours / 3 credits

Min. no. of students: 5 / Max. no. of students: 15

Using professional Czech in hospital: Taking a personal history; taking a family history. Patient's present complaints (onset and duration of the illness and effort to treat it; stay in hospital). Physical examination of the patient. Understanding the patient, the ability to ask him/her questions and giving instructions (practicing imperatives) will be emphasized from the language point of view; practicing listening and speaking (communicative) skills will represent an important and integral part of the seminars.

#### 5. Molecular Aspects of Selected Diseases of Gastrointestinal Tract

Doc. MUDr. Ondřej Daum, Ph.D. / Department of Pathology

Summer term / 6 hours / 3 credits

Min. no. of students: 5 / Max. no. of students: 90

The lecture addresses molecular background of development of colorectal cancer with emphasis on its precursor lesions, as well as the uncovered mystery of gastrointestinal stromal tumor. In both cases, the impact of precise diagnosis on the administration of targeted therapy is explained. Furthermore, the lecture addresses correlation of morphological and molecular features of familial cancer syndromes of GIT.

#### 6. Targeted Therapy in Oncology – a Theoretical Overview

Doc. RNDr. Martin Pešta, Ph.D., Ing. et Ing. Jiří Polívka, MUDr. Vlastimil Kulda / Department of Biology

Summer term / 6 hours / 3 credits

Min. no. of students: 5 / Max. no. of students: 30

Strategies of targeted therapy, basic cellular processes in relation to tumor growth (cell cycle, apoptosis, DNA repair) will be introduced in this course. Elements of signaling pathways as targets of cancer therapy will be discussed.

Recommended literature: Gerald Karp: Cell and Molecular Biology. Wiley 2007. R. Stahel S. Peters: Successes and Limitations of Targeted Cancer Therapy. Koch, Ne & Volckmar GmbH 2014.



### 7. Brain – Mechanisms and Pathophysiology of Its Higher Functions

MUDr. Karel Ježek, Ph.D. / Department of Pathophysiology, Biomedical Center

Winter term / 8 hours / summer term / 4 hours / 5 credits

Min. no. of students: 5 / Max. no. of students: 80

You'll learn about mechanisms of higher cognitive functions of the brain – learning and memory, sensory information processing, decision making, etc. The main impact of the course is on experimental neuroscience across its cellular and systems levels, and both on its basic and most recent achievements. Despite we'll always look for the relevant clinical projections, the primary focus is scientific. The seminar will mainly build on your previous knowledges in neuroanatomy and neurophysiology.

Recommended literature: Principles of Neural Science, Kandel et al., McGraw-Hill Education / Medical, 2012

### 8. Patient Simulator – Train Medical Skills and Diagnostic and Therapeutic Thinking

Doc. MUDr. Milan Štengl, Ph.D. / Biomedical Center

Winter term / 12 hours / summer term / 12 hours / 5 credits

Min. no. of students: 5 / Max no. of students: 12 (2 groups, max 6 students in one group)

Practical classes on the patient simulator allow repeated practicing of various interventions (intubation, cannulation, catheterization, puncture...) and hence their learning. Patient simulator is also able to credibly demonstrate various clinical conditions and the case studies in which students can train their diagnostic and therapeutic thinking. Practical training on the simulator does not replace examination of patients, but the techniques and ways of thinking that students will train on the simulator can advantageously be applied to real patients in the hospital. This will help students to become better physicians.





## 4<sup>th</sup> YEAR CORE ELECTIVE SUBJECTS

### 1. Dermatology and Internal Medicine

Prof. MUDr. Karel Pizinger, CSc. / Department of Dermatovenerology

Summer term / 2 hours / 1 credit

Min. no. of students: 5 / Max. no. of students: 40

The lecture provides much more information about the systemic associations of skin diseases and cutaneous manifestations of systemic diseases. It is hoped that such a multi-disciplinary presentation will be useful to the students. Following topics will be presented: endocrine disorders, cutaneous lesions in metabolic disorders, renal and gastrointestinal diseases, bone and joint diseases, cutaneous markers of internal malignancies.

### 2. Selected Chapters of Immunopathological Conditions

MUDr. Martin Liška, Ph.D. / Department of Immunology and Allergology

Summer term / 4 hours / 2 credits

Min. no. of students: 5 / Max. no. of students: 30

1. Common Variable Immunodeficiency (CVID), 2. Severe Combined Immunodeficiency (SCID), 3. Secondary antibody deficiencies, 4. Systemic lupus erythematosus, 5. Rheumatoid arthritis, 6. Hereditary angioedema, 7. Sjögren's syndrome, 8. Vasculitides, 9. Therapy of immunopathological conditions by using biological agents.

### 3. Modern Trends in Aesthetic Dermatology

Prof. MUDr. Petra Cetková, Ph.D. / Department of Dermatovenerology

Summer term / 2 hours / 1 credit

Min. no. of students: 5 / Max. no. of students: 30

Aesthetic dermatology has assumed an increasingly greater role in dermatology. Some new techniques as chemical denervation with botulinum toxin, peeling, tissue augmentation and other methods used in the treatment of acne and wrinkles will be discussed.

### 4. Forensic Pathology in Clinical practice

MUDr. et MUDr. Miroslav Dvořák, MUDr. Marie Šamanová / Department of Forensic Pathology

Summer term / 4 hours / 2 credits

Min. no. of students: 5 / Max. no. of students: 15

Forensic medicine aspects of life and/or health threatening injuries

### 5. The ABC of Preventive Cardiology

Prof. MUDr. Jan Filipovský, CSc., Prof. MUDr. Hana Rosolová, DrSc. / Department of Internal Medicine II

Summer term / 12 hours / 4 credits

Min. no. of students: 5 / Max. no. of students: 40

Primary and secondary prevention of atherosclerotic vascular diseases -epidemiologic contributions to preventive cardiology and challenges for the 21st century. Cardiometabolic risk factors assessment and interventions: arterial hypertension, dyslipidemias, insulin resistance, obesity, coagulative and inflammatory factors, psychosocial factors. The principles of healthy life style (physical activity, nutrition etc).

### 6. Molecular Oncology

Doc. Ing. Jiří Hatina, CSc., Prof. MUDr. Jindřich Fínek, Ph.D. / Department of Biology

Summer term / 8 hours / 2 credits

Min. no. of students: 5 / Max. no. of students: 10

The aim of the elective subject Molecular Oncology is to mediate recent progress in the molecular biology of cancer, and how this progress is reflected in improved diagnosis, better prognostic evaluations, and especially new therapeutic modalities, with a focus on biologic therapy. Central to the subject is to mediate an interplay between molecular biology and clinical oncology – teaching will be provided by teachers of both the Department of Biology and the Department of Oncology and Radiotherapeutics. Three to four seminar sections are planned. Credits will be granted based on an active participation on the seminars.



### 7. Pathobiochemistry

Prof. MUDr. Radim Černý, CSc., Doc. MUDr. Jaromír Kotyza, CSc., Prof. MUDr. Jaroslav Racek, DrSc. / Department of Medical Chemistry and Biochemistry

Summer term / 30 hours / 10 credits

Min. no. of students: 5 / Max. no. of students: 90

Biochemical background of pathological processes. Pathobiochemistry of carbohydrates, lipids, amino acids, nucleotides and porphyrins. Oncogenesis and metabolism of tumours. Genetic determination of diseases, DNA and RNA diagnostic examination, gene therapy. Disorders of ions and pH in the internal environment. Disorders of extracellular matrix constituents, the role of proteolytic enzymes and their inhibitors, prion diseases. Reactive oxygen and nitrogen species, free radicals.

Textbook: Murray R.K., Granner D.K., Rodwell V.W.: Harper's Illustrated Biochemistry, 27<sup>th</sup> Edition, Lange, McGraw-Hill, 2006

### 8. Advanced Oral Surgery and Dental Implants (for Dentistry students)

MUDr. Daniel Hrušák, Ph.D. / Department of Dentistry

Winter term / 6 hours / 3 credits

Min. no. of students: 5 / Max. no. of students: 15

Advanced surgical techniques and equipment which is to be used during surgical procedures in dental offices with focus on dentoalveolar surgery. Dental implantology, basic concepts, presurgical evaluation, surgical procedure and supporting techniques, complications and pitfalls. Prosthodontic relevance and consequences as prerequisites for successful use of dental implants.

Literature: electronical course Moodie (under construction)

### 9. Introduction to Global Health

Visiting lecturer MUDr. José Francisco Pavão / Department of Public Health Medicine

Summer term / 8 hours / 3 credits

Min. no. of students: 10 / Max. no. of students: 40

Global Health is a broad term, currently used to topics related to the International Health, Tropical Health, Population Health and Public Health. This core-elective subject will provide you an introduction to key concepts important to understand the current status and determinants of global health. Learn how to analyze the implication of major challenges and the process of negotiations leading to health related agreements. "When it comes to Global Health, there is no 'them'...only 'us'" – Global Health Council

### 10. Allergology

Prof. MUDr. Petr Panzner, CSc. / Department of Immunology and Allergology

Summer term / 4 hours / 2 credits

Min. no. of students: 5 / Max. no. of students: 30

Atopy – causes, allergens, diagnostic of atopic diseases; Allergy to hymenoptera venoms, allergic rhinoconjunctivitis, Allergic bronchial asthma, food allergy, drug allergy, treatment, immunotherapy.

Literature: A. B. Kay: Allergy and Allergic Diseases.



## 5<sup>th</sup> YEAR CORE ELECTIVE SUBJECTS

### 1. Clinical Pharmacology and Drug treatment in Rheumatology

Doc. MUDr. Otto Mayer, CSc., MUDr. David Suchý / Department of Clinical Pharmacology

Summer term / 4 hours / 2 credits

Min. no. of students: 5 / Max. no. of students: 30

Concepts in Pharmacotherapy, Drug Development, Clinical Studies, Pharmacokinetics, Pharmacodynamics, Drug Therapy in the Elderly, Clin. Pharmacol. of antirheumatic drugs, biologics

### 2. Family Medicine

Doc. MUDr. Jiří Motáň, CSc. / Department of Internal Medicine I

MUDr. Květuše Zikmundová, CSc. / Department of Social Medicine

Summer term / 30 hours / 9 credits

Min. no. of students: 5 / Max. no. of students: 10

General practitioner's (GP) daily work. Communication with patients and non professionals. Ethical approach, morality in medical care. Appreciation of close relationship between GP and his patient, co-operation with family members. Prevention, promotion and protection of individuals' health and their families, recognition of both medical and non medical determinants in their health. Holistic point of view on human health, The need of integrated medical and social care at community level. The role of professionals and non professionals in its provision and insurance. Ageism and discrimination of old and disabled people in society.

### 3. Computers Advanced

Ing. Tomáš Junek / Department of Information Technology

Summer term / 14 hours / 4 credits

Min. no. of students: 5 / Max. no. of students: 15

MOODLE – Learning Management system: update profile, using discussion. MS Outlook: using filters. MS Word – advanced techniques: Table Of Content Page brakes, numbering titles style. MS PowerPoint. Encrypting and file packing: ZIP, RAR – pack software tools, Cryptainer - how to store secret data. Back-Up your files: Cobian back up software, suitable hardware for backup. Google Earth: software introduction, advantage of GE Videoconferencing, internet communication: EVO – The collaboration Network, Registration Create and control communication. Picture processing. Video processing. Sound processing..



## DEPARTMENTS AND CLINICS

### Biomedical Center

- Head: Doc. MUDr. Milan Štengl, Ph.D.  
tel.: 337 593 341
- Manager: Doc. Ing. Jaroslav Hrabák, Ph.D.  
tel.: 377 593 801  
alej Svobody 1655/76, Pilsen, 323 00, e-mail: info@biomedic-plzen.cz
- Main research topics: \* Replacement and support of vital organ functions  
\* Regeneration and repair of vital organs

### Department of Anatomy

- Head: Doc. RNDr. Pavel Fiala, CSc.  
Karlovarská 48, Pilsen, 301 00  
tel: 377 593 301, fax: 377 593 309, e-mail: pavel.fiala@lfp.cuni.cz
- Main research topics: \* The investigation of the common principles of development and the functional adaptation of the form of bones  
\* The experimental proof of the morphological and biomechanical laws of development of the skeleton  
\* The relationship of morphology and function of vascular system in different localization

### Department of Biophysics

- Head: Doc. MUDr. Jitka Kuncová, Ph.D.  
alej Svobody 1655/76, Pilsen, 323 00  
tel: 377 593 210, fax: 377 593 219,  
e-mail: benes@dante.lfp.cuni.cz, jitka.kuncova@lfp.cuni.cz
- Main research topics: \* Technical and medical problems of hyperbaric oxygenotherapy  
\* Analysis of biosignals in medicine  
\* Introduction of computers into teaching, research, and other activities of the medical faculty and clinical practice

### Department of Biology

- Head: Doc. RNDr. Martin Pešta, Ph.D.  
alej Svobody 1655/76, Pilsen, 323 00  
tel: 377 593 261, e-mail: martin.pesta@lfp.cuni.cz
- Main research topics: \* The application of modern microscopic and molecular genetic methods in medicine

### Department of Histology and Embryology

- Head: Prof. MUDr. Milena Králíčková, Ph.D.  
Karlovarská 48, Pilsen, 301 00  
tel: 377 593 321, fax: 377 593 329, e-mail: milena.kralickova@lfp.cuni.cz
- Main research topics: \* Study of molecular regulation of fertility, functional studies of gametes and molecular interactions of embryo implantation.  
\* Application of stereological quantitative methods in light microscopy.  
\* Stem cells in regenerative medicine.  
\* Cancer stem cells, regulation of cancerogenesis, epithelomesenchymal transition.  
\* Palaeopathology of bone tissue.



#### Department of Languages

- Head: Mgr. Alena Holá  
alej Svobody 31, Pilsen, 323 00  
tel: 377 593 521, e-mail: alena.hola@lfp.cuni.cz
- Main research topics: \* Problems of professional terminology in different languages aimed at medical and scientific language

#### Department of Medical Chemistry and Biochemistry

- Head: Prof. MUDr. Jaroslav Racek, DrSc.  
Deputy: Ing. Václav Babuška, Ph.D.  
Karlovarská 48, Pilsen, 301 00  
tel: 377 593 282, e-mail: racek@fnplzen.cz, chemistry@lfp.cuni.cz
- Main research topics: \* Stem cells in regenerative medicine  
\* Biological properties of tumours  
\* Proteases and antiproteases  
\* Matrix proteins of mineralised tissue

#### Department of Physiology

- Head: Doc. MUDr. Milan Štengl, Ph. D.  
alej Svobody 1655/76, Pilsen, 323 00  
tel: 377 593 341, fax: 377 593 349 e-mail: milan.stengl@lfp.cuni.cz
- Main research topics: \* Autonomic regulation of cardiovascular system in health and disease  
\* Electrogenesis and contractility in normal and diseased heart  
\* Mitochondrial function  
\* Arrhythmogenic mechanism in diseased heart

#### Department of Microbiology

- Head: RNDr. Karel Fajfrlík, Ph. D.  
Edvarda Beneše 13, Pilsen, 305 99  
tel: 377 402 070, 377 402 071, 377 103 265, e-mail: fajfrlik@fnplzen. cz
- Main research topics: \* Mechanisms of resistance of Gram-negative bacteria to antibiotics  
\* Evolution of beta-lactamases  
\* Epidemiology and molecular epidemiology of antibiotic resistance  
\* Nosocomial infections
- Practicals: Lidická 1, Pilsen, 301 66

#### Department of Immunology and Allergology

- Head: Prof. MUDr. Petr Panzner, CSc.  
alej Svobody 80, Pilsen, 323 00  
tel: 377 104 343, fax: 377 103 397, e-mail: panzner@fnplzen.cz
- Main research topics: \* Mechanisms of allergy  
\* Respiratory allergy, asthma  
\* Venom allergy  
\* Allergen immunotherapy
- Teaching: FN Lochotin – seminary room of Immunology and Allergology (2<sup>nd</sup> floor) – entrance C





**Department of Pathology**

Head: Prof. MUDr. Michal Michal  
 alej Svobody 80, Pilsen, 323 00  
 tel: 377 104 630, fax: 377 104 650, e-mail: michal@fnplzen.cz  
 Deputy: Prof. MUDr. Alena Skálová, CSc.  
 Edvarda Beneše 13, Pilsen, 305 99,  
 tel: 377 402 545, fax: 377402 634, e-mail: skalova@fnplzen.cz

Main research topics:

- \* Haematological pathology
- \* Pathology of Urogenital tract
- \* Pathology of head and neck
- \* Pathology of lungs
- \* Dermatopathology

**Department of Pathological Physiology**

Head: Doc. MUDr. Jan Cendelín, Ph.D.  
 alej Svobody 1655/76, Pilsen, 323 00  
 tel: 377 593 361, e-mail: jan.cendelin@lfp.cuni.cz

Main research topics:

- \* The study of basic physiological, pathophysiological and biochemical mechanisms of the nervous system in the course of individual development
- \* The mechanisms of learning and memory, the function of neurotransmitters, the reaction to external stimuli with the emphasis on morphofunctional
- \* Brain plasticity in different conditions and possibilities of experimental influencing it.

**Department of Pharmacology and Toxicology**

Head: Doc. RNDr. Eva Kmoníčková, CSc.  
 alej Svobody 1655/76, Pilsen, 323 00  
 tel: 377 593 241, e-mail: eva.kmonickova@lfp.cuni.cz

Main research topics:

- \* Structure-activity relationship study of immunobiological potential of natural compounds and their new semi-synthetic analogues
- \* The interaction of essential trace elements with xenobiotics (organ models of acute and chronic oxidative damage and searching for protective compounds)

**Department of Sports Medicine**

Head: Prof. MUDr. Václav Zeman, CSc.  
 Lidická 6, Pilsen, 301 00  
 tel: 377 593 201, e-mail: vaclav.zeman@lfp.cuni.cz

Main research topics:

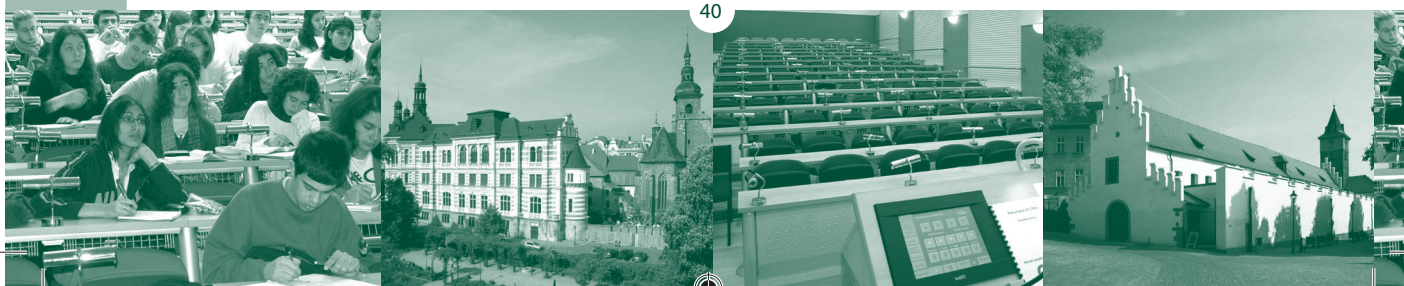
- \* The bioclimatology and different aspects of adaptation to physical load
- \* Longitudinal control of anthropometrical and functional parameters in aging

**Department of Forensic Pathology**

Head: MUDr. et MUDr. Miroslav Dvořák  
 Karlovarská 48, Pilsen, 301 00  
 tel: 377 593 381, e-mail: miroslav.dvorak@lfp.cuni.cz

Main research topics:

- \* Medicine and legal aspects of injuries



#### Department of Public Health and Preventive Medicine

Head: Doc. MUDr. Dana Müllerová, Ph.D.  
Lidická 4, Pilsen, 301 00  
tel: 377 593 191, e-mail: dana.mullerova@lfp.cuni.cz

Main research topics: \* Public health a community programmes tacing NCD (CVD, cancer and obesity)  
\* Nutrition and Health  
\* Other Detrimental risk behaviour (physical inactivity, smoking, alcohol consumption)  
\* Prevention and surveillance during life span (childhood, pregnancy, lactation, adults, elderly)  
\* Hygiene and environment

#### Department of Social and Assesment Medicine

Head: Doc. MUDr. Libuše Čeledová, Ph.D.  
alej Svobody 31, Pilsen, 323 00  
tel: 377 593 541, fax: 377 520 502, e-mail: libuse.celedova@lfp.cuni.cz

Main research topics: \* The health and social situation of older people  
\* Social Gerontology  
\* Problems of medical Assessment Service

#### Department of Internal Medicine I

Head: Prof. MUDr. Martin Matějovič, Ph.D.  
alej Svobody 80, Pilsen, 304 60  
tel: 377 103 500, fax: 377 103 506, e-mail: matejovic@fnplzen.cz

Main research topics: \* Replacement of and support to some vital organs  
\* Renal replacement therapy  
\* Sepsis and multiorgan dysfunction  
\* Kidney transplantation  
\* Proteomics in internal medicine  
\* Diabetes mellitus and microcirculation  
\* Acute coronary syndromes

#### Department of Internal Medicine II

Head: Prof. MUDr. Jan Filipovský, CSc.  
Edvarda Beneše 13, Pilsen, 305 99  
tel: 377 402 591, e-mail: filipovsky@fnplzen.cz

Main research topics: \* Cardiovascular diseases, especially hypertension, heart failure, cardiovascular epidemiology and prevention, angiology  
\* Diabetology  
\* Gastroenterology  
\* Endocrinology, especially diseases of bone metabolism and thyroid gland



**Department of Infectious Diseases**

- Head:** Doc. MUDr. Dalibor Sedláček, CSc.  
Edvarda Beneše 13, Pilsen, 305 99  
tel: 377 402 232, 377 402 263, e-mail: sedlacek@fnplzen.cz
- Main research topics:**
- \* Immunomodulation in secondary immunodeficient states
  - \* Hepatites
  - \* HIV/AIDS
  - \* Neuroinfections
  - \* Gastroenterites of viral origin
- Teaching:** Practicals and the Clinical lectures in the library (Dept. Infectious Dis., Pav. 2, Univ. Hospital, Pilsen Bory)

**Department of Tuberculosis and Respiratory Diseases**

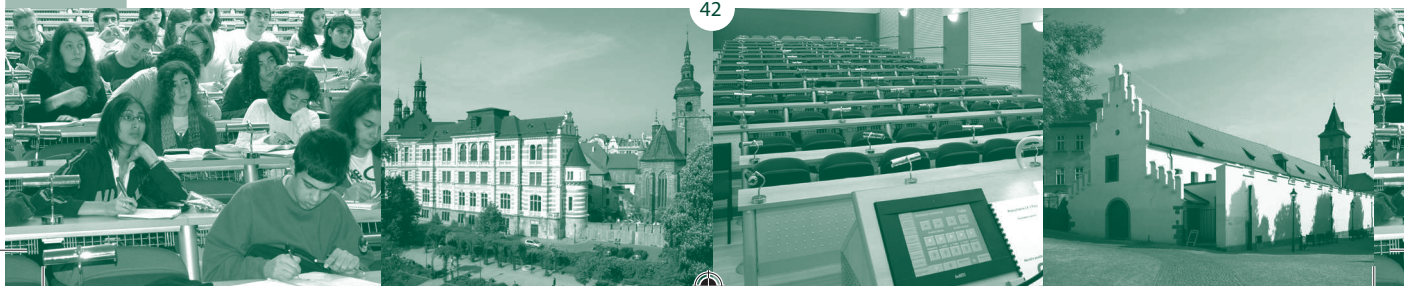
- Head:** Prof. MUDr. Miloš Pešek, CSc.  
Edvarda Beneše 13, Pilsen, 305 99  
tel: 377 402 238, fax: 377 402 652, e-mail: pesek@fnplzen.cz
- Main research topics:**
- \* Pulmonary oncology
  - \* The treatment of interstitial pulmonary fibrosis
  - \* Cryocautery and biotics. Laser therapy in tumors of the respiratory tract
  - \* Severe asthma
- Teaching:** TRD Clinic, Pav. 7, FN Bory

**Department of Occupational Diseases**

- Head:** MUDr. Vendulka Machartová, Ph. D.  
alej Svobody 80, Pilsen, 304 60  
tel: 377 103 600, 377 103 604, e-mail: machartova@fnplzen.cz
- Main research topics:**
- \* European schedule of occupational diseases
  - \* Occupational illnesses – clinical toxicology
  - \* Injuries due to physical hazards
  - \* Occupational cancer
  - \* Occupational lung diseases
  - \* Occupational diseases in medical professions
- Teaching:** At the Lochotin Clinic – Building F, Seminar Room (8<sup>th</sup> floor) or Bory, Building 7 (1<sup>st</sup> floor)

**Department of Pediatrics**

- Head:** Prof. MUDr. Josef Sýkora, Ph.D.  
alej Svobody 80, Pilsen, 304 60  
tel: 377 104 693, 377 104 330, fax: 377 104 694, e-mail: sykorajo@fnplzen.cz
- Main research topics:**
- \* Diagnostics of congenital heart diseases
  - \* Primary prevention of coronary heart disease in childhood and adolescence
  - \* Oxidative stress in non-communicable diseases (DM, IBD)
  - \* Helicobacter pylori infection in childhood
  - \* Support of circulation and lung respiratory function at the critical ill children. A new diagnostic protocols and rational treatments an active protection of multiple organ dysfunction.
  - \* Replacement of and support to some vital organ (MSM 0021620819)



### Department of Dermatovenereology

- Head: Prof. MUDr. Karel Pizinger, CSc.  
Edvarda Beneše 13, Pilsen, 305 99  
tel: 377 402 150, fax: 377 402 692, e-mail: pizinger@fnplzen.cz
- Main research topics: \* Dermatooncology  
\* Melanoma  
\* Lasers in dermatology  
\* New approaches in the dermatological diagnostics and therapy
- Teaching: Immunodermatology Seminar room at the Clinic, 8th floor

### Department of Neurology

- Head: MUDr. Jiří Polívka, CSc.  
alej Svobody 80, Pilsen, 304 60  
tel: 377 103 400, fax: 377 521 740, e-mail: polivka@fnplzen.cz
- Main research topics: \* Neuromuscular diseases, EMG  
\* Cerebrovascular diseases  
\* Clinical neurophysiology  
\* New antiepileptic agents

### Department of Psychiatry

- Head: Doc. MUDr. Jan Vevera, Ph.D.  
alej Svobody 80, Pilsen, 304 60  
tel: 377 103 100, 377 103 101, fax: 377 103 956, e-mail: vevera@fnplzen.cz
- Main research topics: \* Evaluation of efficacy of psychopharmacotherapy  
\* Psychosomatic medicine  
\* Psychosocial factor of somatic illnesses  
\* Rehabilitation of cognitive function by patients with multiple sclerosis using a computer program HAPPY neuron  
\* Cue-Exposure Therapy with use of virtual reality in patients with addiction

### Department of Surgery

- Head: Prof. MUDr. Vladislav Třeška, DrSc.  
Deputy: Doc. MUDr. Josef Vodička, Ph.D.  
alej Svobody 80, Pilsen, 304 60, tel: 377 104 271; fax: 377 103 965  
e-mail: treska@fnplzen.cz, vodicka@fnplzen.cz
- Main research topics: \* Kidney transplantation  
\* Aortic aneurysm  
\* Nutrition in surgical patients  
\* Thoracic surgery  
\* Liver surgery  
\* Colorectal carcinoma
- Teaching: At the Clinic – building B, C & MOST



**Department of Neurosurgery**

Head: Doc. MUDr. Vladimír Přibáň, Ph.D.  
Deputy: Doc. MUDr. Jan Mraček, Ph.D.  
alej Svobody 80, Pilsen, 304 60, tel: 377 104 371, fax: 377 103 075  
e-mail: pribanv@fnplzen.cz, mracek@fnplzen.cz

Main research topics: \* Neurotraumatology  
\* Intensive care in neurosurgery  
\* Cerebrovascular neurosurgery  
\* Surgery of degenerative spinedisease  
\* Electrophysiology in neurosurgery

Teaching: Seminary room of Neurosurgery (3<sup>rd</sup> floor – MOST)

**Department of Orthopaedics**

Head: Doc. MUDr. Tomáš Pavelka, Ph.D.  
alej Svobody 80, Pilsen, 304 60  
tel: 377 103 953, e-mail: pavelka@fnplzen.cz  
Doc. MUDr. Jiří Matějka PhD.  
tel: 377 103 958, e-mail: matejka@fnplzen.cz

Main research topics: \* Sonography of congenital hip displacement  
\* Uncemented hip prostheses  
\* Arthroscopic of surgery  
\* Alloplasty of hip and knee joints  
\* Conservative hip endoprosthesis  
\* Spine surgery  
\* Traumatology of Movement system

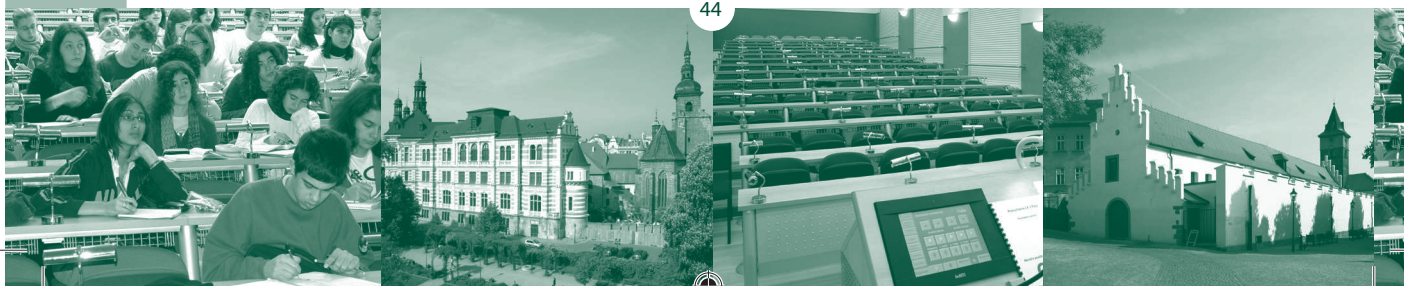
Teaching: Library of the department

**Department of Urology**

Head: Prof. MUDr. Milan Hora, Ph.D., MBA  
Edvarda Beneše 13, Pilsen, 305 99  
tel: 377 402 225, e-mail: horam@fnplzen. cz

Main research topics: \* Kidney tumours – radiological diagnosis, Histopathology, Laparoscopy  
\* Tumour markers

Teaching: At the Clinic



### Department of Imaging Methods

- Head:** Prof. MUDr. Boris Kreuzberg, CSc.  
Deputy: MUDr. Hynek Mírka, Ph.D.  
Prof. MUDr. Jiří Ferda, Ph.D.  
Assoc. Prof.: Doc. MUDr. Jan Baxa, Ph.D.  
alej Svobody 80, Pilsen, 304 60, tel: 377 103 436, fax: 377 103 438  
e-mail: kreuzberg@fnplzen.cz
- Main research topics:**
- \* Imaging of cardiovascular diseases, including interventional radiology
  - \* Imaging in oncology (liver, kidneys, breast, prostate, lungs), including interventional oncology
  - \* Clinical use of hybrid methods (PET/CT and PET/MRI)
  - \* Functional and molecular imaging using imaging methods
  - \* Advanced ultrasound (contrast enhanced ultrasound, ultrasound elastography)
- Teaching:** Entrance C, 4<sup>th</sup> floor, the first door in the corridor on the left of the elevator

### Department of Anaesthesiology and Intensive Care Medicine

- Head:** MUDr. Richard Pradl, Ph.D.  
Deputy: Doc. MUDr. Ivan Chytra, CSc.  
alej Svobody 80, Pilsen, 304 60, tel: 377 104 380, fax: 377 103 077  
e-mail: pradl@fnplzen.cz
- Main research topics:**
- \* Noninvasive monitoring in trauma patients
  - \* Rational choice and type of application of antimicrobial therapy
  - \* Long term opioid therapy in chronic no-cancer pain
  - \* Quality of life after intensive care
  - \* Therapy of intractable bleeding in trauma and surgical patients
- Teaching:** At the Clinic – Aula, Immunology classroom, Anaesthesiology classroom, MOST – Surgery

### Department of Ophthalmology

- Head:** Doc. MUDr. Renata Říčařová, CSc., FEBO  
alej Svobody 80, Pilsen, 304 60  
tel: 37 104 402, fax: 377 104 429, e-mail: ricarova@fnplzen.cz
- Main research topics:**
- \* Glaucoma – Diagnosis and treatment Ophthalmic microsurgery
  - \* Implantation of intraocular lenses after cataract extraction
  - \* Retinal diseases – New methods in diagnosis and treatment
- Teaching:** Seminary room at the Clinic, 4<sup>th</sup> floor, Entrance E



**Department of Ear, Nose and Throat Diseases**

Head: MUDr. David Slouka, Ph.D., MBA  
 Edvarda Beneše 13, Pilsen, 305 99  
 tel: 377 402 248, fax: 377 402 615, e-mail: slouka@fnplzen.cz

Main research topics:
 

- \* Onto and phylogeny of the larynx
- \* Laryngeal complex – morphology and function
- \* Study of voice disorders (microlaryngostroboscopy)
- \* Evaluation of noise affected hearing disorders
- \* Benign lesions and precancerosis of the larynx
- \* Sleep apnoe syndrome
- \* Sinusitis and inflammations of lower respiratory ways

Teaching: Seminar room at the Clinic, 5<sup>th</sup> floor, Pavilion 2

**Department of Gynaecology and Obstetrics**

Head: Doc. MUDr. Zdeněk Novotný, CSc.  
 Deputy: Doc. MUDr. Jiří Bouda, Ph.D.  
 Consultant in Obstetrics and Gynecology  
 alej Svobody 80, Pilsen, 304 60  
 tel.: 377 105 213, fax: 377 105 290  
 e-mail: novotnyz@fnplzen.cz, boudaj@fnplzen.cz

Main research topics:
 

- \* Precancerosis and gynecologic oncology
- \* Perinatology
- \* Immunology of reproduction
- \* Gynecologic laparoscopy
- \* Gynecologic sonography

**Department of Dentistry**

Head: Doc. MUDr. Antonín Zicha, CSc  
 alej Svobody 80, Pilsen, 304 60  
 tel: 377 104 701, fax: 377 104 720, e-mail: zicha@fnplzen.cz  
 Advisor and Coordinator for International Students in Dentistry:  
 MUDr. Omid Moztarzadeh, Ph.D.  
 e-mail: moztarzadeh@fnplzen.cz

Main research topics:
 

- \* Biological evaluation of new dental materials
- \* Microbiological and immunological aspects of periodontal disease
- \* Pathogenic mechanisms of oral mycotic infections
- \* The use of antroscopy in maxillofacial medicine
- \* Study of periodontal disease according to selected standpoints in adult persons
- \* Disinfection and decontamination in prosthetic dentistry

**Department of Medical Genetics**

Head: MUDr. Ivan Šubrt, Ph.D.  
 Edvarda Beneše 13, Pilsen, 305 99  
 tel: 377 402 800, e-mail: subrti@fnplzen.cz

Main research topics:
 

- \* Prenatal screening for congenital defects



#### Department of of Clinical Biochemistry and Haematology

- Head: Prof. MUDr. Jaroslav Racek, DrSc.  
alej Svobody 80, Pilsen, 304 60  
tel: 377 104 233, 377 104 234, e-mail: racek@fnplzen. cz
- Main research topics: \* Biomarkers of organ damage  
\* Novel risk factors of atherogenesis  
\* Metabolic changes in patients with end-stage renal disease
- Teaching: FN Lochotín, Entrance B, 2<sup>nd</sup> floor, seminary room at the Clinic.

#### Department of Oncology and Radiotherapeutics

- Head: Prof. MUDr. Jindřich Fínek, Ph.D.  
alej Svobody 80, Pilsen 304 60  
tel: 377 105 500, e-mail: finek@fnplzen. cz
- Main research topics: \* Predictive oncology  
\* Predictive oncology, concomitant radiochemotherapy, treatment planning in radiotherapy

#### Department of of Epidemiology

- Head: Prof. MUDr. Petr Pazdiora, CSc.  
Edvarda Beneše 13, Pilsen, 305 99  
tel: 377 402 926, e-mail: pazdiora@fnplzen. cz
- Main research topics: \* Rotaviral and noroviral infections
- Teaching: FN Bory, Pav. 4, back entrance, 1<sup>st</sup> floor

#### Department of Neonatology

- Head: Doc. MUDr. Jiří Dort, Ph.D.  
alej Svobody 80, Pilsen, 304 60  
tel: 377 105 681, e-mail: dortj@fnplzen. cz
- Main research topics: \* Calcium and phosphate metabolism in premature infants, enteral nutrition, long-term follow-up of high risk neonates







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