

ECTS-Info Package

Medical University of Vienna www.medunivienna.ac.at/international









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1 GENERAL INFORMATION

1.1 The City of Vienna

Vienna, the capital of Austria, is a city of over 1.8 million inhabitants. It is one of the great cultural centres of Europe with a continuous history of more than 2000 years. Situated on the Danube, the first settlements arose at the cross-roads of two important trade routes: the "amber route", connecting the Baltic countries with Italy, and the east-west route along the Danube. The latter route, together with the traces of the Roman settlement "Vindobona", can still be seen in the layout of the city's streets.

During the Middle Ages, Vienna rose to importance both in defending against and connecting central Europe with the East, and eventually became the capital of the vast Habsburg empire. The exceptional concentration of talent, reflected by the great achievements in music, art, and the sciences, was a consequence of Vienna's role as a meeting place of a large number of different nations and traditions. Although much reduced in importance by the break-up of the Austro-Hungarian monarchy at the end of World War I, and placed on the periphery of the western world as a consequence of World War II, Vienna has retained its role as one of the leading capitals of Europe. Since the fall of the Iron Curtain it has successfully resumed its tradition of connecting the East and the West.

Today Vienna is a thriving international city, integrating the rich inheritance of a glorious past with a dynamic approach to the modern world. As a seat of numerous international organisations and an important turntable for business enterprises, Vienna is at the same time a city of operas, concert halls, theatres, universities, museums, and, last but not least, of coffee houses and "Heurigen".

For more information about the city of Vienna go to the home page of the city of Vienna:

The Medical University of Vienna was established in 2004. Before then it was part of the University of Vienna, founded in 1365 by the Habsburg Duke Rudolph IV and thus the name of "Alma Mater Rudolphina". The main building of the University of Vienna is located on the "Ringstraße" in the centre of Vienna (underground line U2, stop "Schottentor - Universität"); the building dates from 1883, houses several administrative offices and the main University Library, as well as several departments and lecture halls. The arcades of its central courtyard exhibit the busts and memorials of a great number of illustrious members of the university.

The Viennese Medical School has a long tradition: its oldest seal dates from 1408. The present form of organisation is rooted in the reforms introduced by the empress Maria Theresia and her son Joseph II



in the 18th century. These included the organisation of a Medical School (1749), and the foundation of both a 2000-beds General Hospital (1784) and a Medico-surgical Military Academy (1785). In the 19th century, the "Vienna Medical School" rose to international fame due to the remarkable advances in research and therapy achieved by professors such as Rokitansky, Skoda, Hebra, Semmelweis, Billroth, Pirquet, and many others. In the 20th century, this tradition lead to five Nobel Prizes for Medicine: Robert Bárány, Julius Wagner-Jauregg, Karl Landsteiner, Otto Loewi, and Konrad Lorenz.

In October 1998, a new campus was opened on the site of the former General Hospital (ALLGEMEINES KRANKENHAUS, AKH) for most of the departments of the Faculty of Humanities.

The clinics are now located at the Währinger Gürtel in a modern 1800 beds hospital. The preclinical departments are located on Währinger Straße in the same district. Today, the Medical University includes 69 departments, 103 full professors, and over 1000 academic staff. Together with approximately 12,000 students, this makes it one of the largest medical schools in Europe.

The new founded Medical University started work on the 1.1.2004 comprising:

- Medicine
- Dentistry
- Medical Sciences

The rectorship, the department of studies and the International Mobility Office of the new Medical University of Vienna are located in the area of the General Hospital at Spitalgasse 23, 1090 Vienna. You can get there by tramway linie 5, stop: Lazarettgasse or by tramway Linie 33, stop: Lazarettgasse.

1.3 Studying at the Medical University of Vienna

All graduates from an Austrian High school with a "Matura" diploma (school leaving certificate, the equivalent of a British "A-level" or the German "Abitur") or a Higher Education Entrance Qualification are entitled to take the entrance examinations. Furthermore, students may be required to take supplementary examinations in certain subjects.

At the Medical University of Vienna there are different kinds of studies:

- N202 DIPLOMA STUDIES OF MEDICINE
- N203 DIPLOMA STUDIES OF DENTISTRY
- N 066 936 MEDICAL INFORMATICS
- N094 PHD (DOCTOR OF PHILOSOPHY)
- N790 DOCTORAL PROGRAM OF APPLIED MEDICAL SCIENCE

The most outstanding feature of the degree programme concerning N201 doctoral studies of medicine (expiring 2010) is that students generally decide on the order in which they intend to complete the lectures and exams themselves.



The most outstanding feature of the degree programmes - concerning the diploma studies of medicine and dentistry N202 and N203 is the curricular system: there is a Unit Catalogue. Each unit is based on specific programmes students have to pass through!

More detailed information you will find in the chapter "The ECTS Package of the Medical University of Vienna" (12 ff.)

1.4 Academic Calendar

The academic year is divided into two semesters: Winter semester Start: Beginning of October End: Beginning of February

Summer semester Start: End of February End: Beginning of July In addition to the summer and February breaks, there are 2-week vacations at Easter and Christmas.

Grading system:

1	Very good	"Sehr gut"
2	Good	"Gut"
3	Satisfactory	"Befriedigend"
4	Pass	"Genügend"
5	Fail	"Nicht Genügend

Austrian Student's Union/Universitätsvertretung an der Medizinischen Universität Wien:

The Austrian Student's Union is the official representative body of all students in Austria. The Austrian Student's Union finances its activities with a compulsory fee ("ÖH-Beitrag"), currently € 18 per semester.

The International Office of the ÖH will be available for answering administrative and study questions.

Universitätsvertretung an der Medizinischen Universität Wien Leitstelle 6M, AKH Währinger Gürtel 18-20 A-1090 Wien Tel. 01/403 17 59 Fax. 01/403 17 59- 16 em@il: uv@uv-medizin.at " www.uv-medizin.at/



1.5 Libraries

University Library

The Medical University of Vienna has its University library where you will find the books relevant to your subject; click on:

Www.meduniwien.ac.at/index.php?id=46&language=1

Once you have your student identity card ("Ausweis für Studierende" with the semester sticker) and your certificate of registration ("Meldezettel") you can apply for a library card to borrow books at the lending division of the University Library.

Opening hours of the lending divisionMonday to Friday9:00 - 20:00Saturday9:00 - 13:00

During University Holidays there are limited opening hours. For further information please contact the information desk. phone (01) 40400-1095

The National Library

Österreichische National Bibliothek Josefsplatz 1, A-1010 Vienna Tel.: (+43-1) 534 10-0

All publications printed and published in Austria and all literature about Austria published in other countries or written by Austrian authors is collected by the ONB. The collection consists of about 1,8 million volumes. There is a annual fee! The opening hours can be found under:

www.onb.ac.at/

Libraries of the City of Vienna

Books can be borrowed at these libraries in almost every district. The main library is located in Urban-Loritz-Platz 2A, 1070 Wien

There is an annual fee!

🗥 www.buechereien.wien.at



1.6 Computer Services

Students of the Medical University of Vienna can to take up the student services offered by the ITSC - IT SYSTEMS & COMMUNICATIONS department of the Medical University of Vienna (HelpDesk für Fragen zu den IT-Services für Studierende).

* http://www.meduniwien.ac.at/homepage/content/organisation/dienstleistungseinrichtungenund-stabstellen/itsc-it-systems-communications/kontakt/

MUW-StudID

The ITSC offers an internet service for all students of the Medical University of Vienna. It offers the following services:

- access to all internet services, e.g.: WWW, FTP, telnet
- an email address in the form of:

nRegistrationNumber@students.meduniwien.ac.at

- free access to the internet and all other services also from home
- possibility to create your own homepage

You can use your MUW-StudID either from home or at a computer in one of the user rooms in the university. For the activation of your MUW-StudID account you need to go to:

1. https://www.meduniwien.ac.at/itsc/studierende/pw/cgi-bin/students/aktivieren.cgi

- enter your student ID (nmatriculation number, eq. n0412345).
- enter your activation code as written on your admission document
- create your personal password

With the user ID and your pass word you can also access the MedCampus System
https://campus.meduniwien.ac.at as well as all documents which require a student login.

ITSC HelpDesk concerning IT-Services for students

Mo – Fr: 8 am – 4 pm Phone: +43 1 40160 - 21288 eMail: stud-helpdesk@meduniwien.ac.at

Opening Hours Computer rooms

There are computer rooms for students of the Medical University of Vienna available at the Core Unit for Medical Education:



Lernzentrum, Spitalgasse 23 and Hörsaalzentrum, 6M Währinger Gürtel 18 – 20 7.30 am - 7.30 pm

1.7 Other useful information

Price reductions for students

The ÖH, the Austrian Student's Union, can provide you with information on reductions for railways, trams, theatres, concerts, museums, books, etc.

ÖH Medizin Wien Leitstelle 6M, AKH Währinger Gürtel 18-20, 1090 Wien Tel. (01) 40160 71000

http://www.uv-medizin.at/

Banks/Post offices

Banks are open from 8.00 to 12.30 a.m. and from 1.30 to 3.00 p.m. Monday to Friday, except Thursday when they close at 5.30 p.m. Post offices are open for bank transactions from 8.00 to 12.00 a.m. and 2.00 to 5.00 p.m. and until 6.00 p.m. for posting letters. Only large post offices are open between noon and 2.00 p.m. The Main Post Office (Fleischmarkt 19, 1010-Vienna) is open around the clock, the post offices at the "Südbahnhof" and at the "Franz Josefs-Bahnhof" until 10.00 p.m. and the one at the "Westbahnhof" until 11.00 p.m.

Public Transportation

Vienna has a good transport system with buses, trams, underground and municipal trains that run from about 5.30 a.m. to around midnight. There are also night buses ("NightLine"). Maps of the public transportation network are available at the advance ticket-offices in the main underground stations. If you intend to use public transportation regularly, you can buy a semester ticket (October-January, March-June) for students at the advance ticket-offices. More information you get at the information hotline of "Wiener Linien" Tel.: (+43-1) 7909 120.

Vienna Night Line

For night-owls there are 22 bus lines every 30 minutes between midnight and 5.00 a.m. in the morning. They are available at the advance ticket-offices. Vienna Night Line is for free for those who have a weekly ticket, a monthly pass or the semester ticket.

🕀 www.wienerlinien.at



Lost and Found

Vienna is quite a safe city, although you should not be careless at crowded places. You should report any loss or theft to the nearest police station. With this report you can get copies of lost/stolen ID cards. After a few days you can collect/enquire about any of your found property at the Lost and Found Office ("Zentrales Fundservice")

Zentrales Fundservice Charlotte-Bühler-Heim Bastiengasse 36-38 1180 Wien Monday to Friday from 8 a.m. to 3.30 p.m., Thursday till 5.30 p.m.

Sports activities

The "Sportreferat" of the ÖH (Austrian Student's Union), AAKH, A-1090 Vienna, Alserstraße 4, and the University Sport Centre (USI), A-1150 Vienna, Auf der Schmelz 6, Tel.: (+43-1) 4277 48801 offer a wide range of activities.

www.univie.ac.at/USI-Wien/

Cultural events

A free monthly guide of cultural events is available at the tourist information office: (1st district, Albertinaplatz, daily 9:00 am – 7:00 pm)

http://info.wien.at/

Emergency calls

122	Fire Brigade (Feuerweh	nr)
133	Police (Polizei)	
144	Ambulance (Rettung)	
141	Emergency doctor (Not	fallarzt)
	(7.00 p.m. to 7.00 a.m.)	
1550	Chemists	
	(Apothekenbereitschaft	:)
	(7.00 p.m7.00 a.m.)	
71719	Emergency call for wor	nen
	(Frauennotruf)	
4064343	Poisoning emergency	(Vergiftungszentrale)



2 EUROPEAN CREDIT TRANSFER SYSTEM: ECTS

ECTS is a system to facilitate academic recognition of courses taken abroad. It is used by more than 1000 universities in individual subjects or for all subjects.

The use of ECTS is based on:

- mutual trust of the partner institutions
- (to recognise courses studies taken abroad)
- use of ECTS credits and
- use of ECTS forms
- transparency by ECTS Information Packages

ECTS, the EUROPEAN CREDIT TRANSFER SYSTEM was developed by the Commission of the European Union in order to provide common procedures to guarantee academic recognition of studies abroad. It provides a way of measuring and comparing learning achievements, and transferring them from one institution to another.

The ECTS system is based on the principle of mutual trust and confidence between the participating higher education institutions. The few rules of ECTS, concerning Information (on courses available), Agreement (between the home and host

institutions) and the use of Credit Points (to indicate student workload) are set out to reinforce this mutual trust and confidence. Each ECTS department will describe the courses it offers not only in terms of content but also adding credits to each course.

1. http://europa.eu.int/comm/education/programmes/socrates/erasmus/erasmus_en.html

The Credit System

ECTS credits are a value allocated to course units to describe the student workload required to complete them. They reflect the quantity of work each course requires in relation to the total quantity of work required to complete a full year of academic study at the institution, that is, lectures, practical work, seminars, self-study - in the library or at home - and examinations or other assessment activities. ECTS credits express a relative value.

In ECTS, 60 credits represent the workload of one year of study; normally 30 credits are given for a semester and 20 credits for a term. It is important that no special courses are set up for ECTS purposes but that all ECTS courses are mainstream courses of participating institutions, as followed by home students under normal regulations.

It is up to the participating institutions to allocate the credits for the different courses. Practical placements and optional courses which form an integral part of the course of study also receive academic credit. Practical placements and optional courses which do not form an integral part of the



course of study do not receive academic credit. Non-credit courses may, however, be mentioned in the Transcript of Records.

Credits are awarded only when the course has been completed and all required examinations passed.

Students

The students participating in ECTS will receive full credit for all academic work successfully carried out at any of the ECTS partner institutions and they will be able to transfer these academic credits from one participating institution to another as long as there is prior agreement between the institutions involved.

Most students participating in the ECTS exchange scheme will go to one single host institution in one single EU Member State, study there for a limited period and then return to their home institution. Some may decide to stay at the host institution and finish their degree there. Some may also decide to proceed to a third institution to continue their studies. In each of these three cases, students will be required to comply with the legal and institutional requirements of the country and institution where they take their degree.

When the student returns and has successfully completed the study programme previously agreed upon between the home and the host institutions, credit transfer will then take place, and the student will continue the study course at the home institution without any loss of time or credit. If, on the other hand, the student decides to stay at the host institution and to take his/her degree there, he/she may have to adapt his/her study course to the legal, institutional and departmental rules in the host country, institution and department.

Fees

Students shall not be required to pay tuition fees at the host institution. The student may, however, be required to continue to pay his/her normal tuition fees to the home institution during the study period abroad.

The national scholarship to which a student may be entitled for study at his/her institution may not be discontinued, interrupted or reduced while that student is studying in another Member State and is receiving an ERASMUS grant.

Students will also have to pay the compulsory fee ("ÖH-Beitrag") for the Austrian Students Union (2012: € 17) prior to registration. To facilitate the process, students will receive approximately one month before their arrival in Vienna the necessary information. Please pay the fee right away, because further administrative steps such as student card and an official registration certificate require that the fee has been credited to the University. There is no transaction fee within the EU if the IBAN and BIC codes are used. The ÖH-membership fee also includes a comprehensive liability and accident insurance.



Grants

The selection of students who will receive mobility grants will be carried out by each institution. Students may only be awarded grants if they fulfill the general conditions of eligibility for the ERASMUS grant. These are:

• Students must be citizens of one of the EU Member States or citizens of one of the EFTA countries (or must be recognised by one Member State or one EFTA country as having an official status of refugee or stateless person or permanent resident).

• As to EFTA nationals, students will be eligible provided they are moving within the framework of ERASMUS from the respective EFTA home country to an EU Member State. EFTA nationals registered as students in ECTS participating institutions in other EFTA countries or in EU Member States are only eligible for participation in ECTS if they have established a right of permanent residence.

- One study period abroad must not last less than 3 months or more than months.
- Students in the first year of their studies are not eligible for receiving ERASMUS grants.

Planning the programme of study abroad

Students who wish to study abroad must contact the International Office of their own university. There information packages of partner institutions are available which should be used to choose the destination and plan the programme of study abroad. The packages help students to select courses which are appropriate in their content and academic level so that they can be recognised by the home institution as part of the student's degree programme.

Use of the ECTS credits helps students to organise a study programme which is feasible in terms of overall workload. The ECTS credit rating demonstrates the relative weight of each course in the proposed programme of study.

Ensuring full academic recognition

An ECTS study programme must be approved by both the home and the host institutions before the student leaves for the study period abroad. If the programme of study described in the learning agreement is completed successfully by the student, it will be fully recognised by the home institution.

The transfer of ECTS credits

Home and host institutions prepare and exchange Transcripts of Records for each student participating in ECTS before and after the period of study abroad. A copy of these transcripts is given to the student for his/her personal file.



3 THE ECTS PACKAGE OF THE MEDICAL UNIVERSITY OF VIENNA

This information package describes the courses offered by the Medical University of Vienna in order to help the prospective ECTS students to prepare their study period in this institution.

Partner Institutions

as of December 2012

[M = Medicine / MI = Medical Informatics / NPHC = Network of Primary Health Care / D = Thesis]

Belgium	BE : Université Libre de BRUXELLES ULB [2M, 1Z]
	BE : Vrije Universiteit BRUSSEL VUB [1M]
	BE : Universiteit GENT [1NPHC]
	BE : Katholieke Universiteit LEUVEN [1M]
Bulgaria	BG : Meditsinski Universitet - SOFIA [2M]
Croatia	HR: Sveučilište u ZAGREBU/University of ZAGREB
Czech Republic	CZ: Masaryk University BRNO [1M]
	CZ : Charles University in PRAGUE – 1. Lékařská Fakulta [1M] / 2. Lékařská Fakulta
	[2M]
	CZ : Univerzita Karlova v Praze Lékařská Fakulta v Plzni PLZEN [2M]
Denmark	DK : AARHUS Universitet [2M]
	DK : KØBENHAVN Universitet [2M]
Finland	FI : University of TURKU - Turun yliopisto [1M]
	FI : University of OULU / OULUN YLIOPISTO [1M]
	FI : ITÄ SUOMEN Yliopisto / University of Eastern Finland - UEF [2M]
France	FR : Université Victor Segalen BORDEAUX 2 [2M]
	FR : Université Claude Bernard LYON 1 [1M]
	FR : Université Catholique de LILLE [1M]
	FR : Université de la Mediterranée AIX-MARSEILLE II [2M]
	FR : Université de NICE [1NPHC]
	FR : Université Descartes - PARIS V [3M]
	FR : Université Pierre et Marie Curie - PARIS VI [2M]
	FR : Université PARIS XI - Le Kremlin-Bicêtre [3M]
	FR : Université de RENNES I [2M]
	FR : Université Louis Pasteur STRASBOURG I [2M]
Germany	DE : Charité - Universitätsmedizin BERLIN [2M, 1Z]
	DE : Rheinische Friedrich-Wilhelms-Universität BONN [1M]
	DE: Technische Universität DRESDEN [2M]
	DE : Heinrich-Heine-Universität DÜSSELDORF [1NPHC]
	DE : Albert-Ludwigs-Universität FREIBURG [2M]
	DE : Justus-Liebig-Universitaet GIESSEN
	DE : Georg-August-Universität GOTTINGEN [2M]
	DE :Medizinische Hochschule HANNOVER [1NPHC]
	DE : Ruprecht-Karls-Universität HEIDELBERG [6M]
	DE : Christian-Albrechts-Universität zu KIEL [2D]



	DE : Universität zu KÖLN [3M] DE: Universität zu LÜBECK [2M] DE: Technische Universität MÜNCHEN TUM [2M] DE : Ludwig-Maximilians-Universität MÜNCHEN LMU [2M] DE : Westfälischen Wilhelms-Universität MÜNSTER [2M] DE : Universität des SAARLANDES [2M] DE : Universität WITTEN/HERDECKE [2Z] DE : Martin-Luther-Universität HALLE-WITTENBERG MLU [1M]
Great Britain	GB: University of CAMBRIDGE [1D] GB : Imperial College LONDON [1NPHC] UK : University of LIVERPOOL [3M - ONLINE] GB : University of EDINBURGH [1NPHC] GB : University of NOTTINGHAM [1NPHC]
Greece	GR : National and Capodistrian University of ATHENS [2M] GR : University of CRETE [2M] GR : Aristotle University of THESSALONIKI [2M]
Hungary	HU : Semmelweis Egyetem / Semmelweis University BUDAPEST [2M] HU : University of PÉCS [2M] HU : SZEGEDI Tudományegyetem / University of SZEGED [3M]
ltaly	IT : Università degli Studi di BARI [1M] IT : Università di BOLOGNA - Alma Mater Studiorum [2M] IT : Università degli Studi di FERRARA [2M] IT : Università degli Studi di FIRENZE [2M] IT : Università degli Studi di NAPOLI Federico II [2M] IT : Università degli Studi di FOGGIA [2M] IT : Università degli Studi di FOGGIA [2M] IT : Seconda Università degli Studi di NAPOLI - SUN [2M] IT : Università degli Studi di MILANO [2M - Online] IT : Università degli Studi di PADOVA [2M] IT : Università degli Studi di PADOVA [2M] IT : Università degli Studi di PAVIA [2M] IT : Università degli Studi di PAVIA [2M] IT : Università degli Studi di PERUGIA [2M] IT : Università degli Studi del PIEMONTE Orientale "Amedeo Avogadro" [2D] IT : Università degli Studi di ROMA "La Sapienza" [2M+1D] IT : Università degli Studi di UDINE [1NPHC] IT : Università degli Studi della Tuscia di VITERBO [2D] IT : Università degli Studi della Tuscia di VITERBO [2D] IT : Università degli Studi del Molise CAMPOBASSO [2M]
Netherlands	NL : Universitet van AMSTERDAM - UVA [2MI] NL : Universiteit LEIDEN [2M] NL : Radboud Universiteit NIJMEGEN [1NPHC]
Poland	PL : Uniwersytet Jagiellónski Collegium Medicum KRAKÓW [1M] PL : POZNAN University of Medical Sciences [2MI] PL : Akademia Medyczna w GDANSKU [1NPHC] PL : Medical University of WARSAW [2M]
Portugal	PT : Universidade de COIMBRA [1M] PT : Universidade de LISBOA [2M] PT : Universidade do PORTO [2M]



3 THE ECTS PACKAGE OF THE MEDICAL UNIVERSITY OF VIENNA

Romania	RO : Universitatea "Iuliu Hatieganu" din CLUJ-NAPOCA [2M]
	RO : Universitatea tehnica din CLUJ-NAPOCA [3D]
	RO : "Carol Davila" University of Medicine and Pharmacy BUCHAREST [2M]
	RO : Medizinische und Pharmazeutische Universität "Victor Babes" TIMISOARA
	[2M]
	RO : Universitatea de Medicina si Farmacie din CRAIOVA [2M]
.	RO: Universitatea de Medicina si Farmacie din TARGU-MURES [2M]
Slovakia	SK : Comenius University BRATISLAVA/Jessenius Faculty of Medicine MARTIN [2M]
Slovenia	SI : University of LJUBLJANA [1NPHC]
	SI : Univerza v MARIBORU [2M]
Spain	ES : Universidad Miguel Hernández de ELCHE (ALICANTE) [2M]
	ES : Universitat Autonoma de BARCELONA [2M - ONLINE]
	ES : Universidad Autónoma de MADRID [4M - ONLINE]
	ES : Universidad de CADIZ [2M]
	ES : Universitat Jaume I CASTELLO DE LA PLANA [2M]
	ES : Universidad de MURCIA [2M]
	ES : Universitat Jaume I - Castelló de la Plana [2M]
	ES : Universidad de SALAMANCA [2M]
	ES : Universidad de OVIEDO [1M]
	ES : Universidad de SANTIAGO DE COMPOSTELA [2M]
	ES : Universidad de SEVILLA [2M]
	ES : Universitat Rovira i Virgili TARRAGONA [1M]
	ES : Universidad de La Laguna - TENERIFE [3M]
	ES : Universidad de VALENCIA [4M]
	ES: Universidad de Las Palmas de GRAN CANARIA - ULPGC
	ES : Universidad de VALLADOLID [1M]
Sweden	SE: LINKÖPINGS Universitet [2M]
	SE : LUNDS Universitet [2M]
	SE : GÖTEBORG University - Sahlgrenska Academy [1NPHC]
	SE : Karolinska Institutet STOCKHOLM [2M]
Switzerland	CH : Universität BASEL [2M]
	CH : Université de LAUSANNE [3M]
	CH : Universität BERN [2M]
	CH : Universität ZÜRICH [2M+1MS]
Turkey	TR : İstanbul Üniversitesi [2M]
	TR : Akdeniz Univerity ANTALYA [1NPHC]
	TR : KOCAELI Üniversitesi [1NPHC]

3.1 Registration

Registration of ERASMUS students is done through the International Mobility Office in a special orientation session at the beginning of each semester. For registration you will need:

1. Your ECTS documents.

2. A photograph (passport size)



3. MAESTRO Card for the payment of the compulsory ÖH-fee if not already transferred via internet banking before your arrival in Vienna

3.2 Language of instruction

All lectures and most textbooks are in German. If you need language preparation, you can enrol in the German courses of the

Deutschkurse der Universität Wien Campus der Universität Wien Hof 1, Zugang 1.16 Alserstr. 4, 1090 Wien Tel.: +43 1 4277-24101 Fax: +43 1 4277-9241 deutschkurse@univie.ac.at

www.univie.ac.at/WIHOK/

3.3 Accommodation

The ÖAD (ÖSTERREICHISCHER AUSTAUSCH DIENST=AUSTRIAN ACADEMIC EXCHANGE SERVICE) arranges accommodation for ERASMUS students in student housing facilities. In order to reserve a room please take a look at the website of the ÖAD!

3.4 Health and insurance

- For personal health treatments in case of illness please bring European Health Insurance Card.
- As a student in Austria you are automatically covered by the ÖH insurance policy for liability and accident insurance (insurance fee is included in the ÖH membership fee over 17EUR) in case of damages and accidents within the scope of your studies.

3.5 Cost of living

In addition to the cost for housing you will need at least $300 \in$ per month for your living expenses. Food and restaurants are rather expensive, but there exist a number of cafeterias and mensas that offer reasonably priced meals for students.



3.6 Visa requirements

If you are a citizen of the European Union or of an EFTA country, you need a valid passport to enter Austria. If you stay for longer than three months in Austria, an additional registration is necessary. Citizens of the EU and Switzerland, who come to Austria after January 1, 2006 and intend to stay longer than three months, have to apply at the Municipal Department for Immigration, Citizenship and Registry Offices (MD 35) for a document called "Anmeldebescheinigung". This is documentation for their right of residence.

* http://www.wien.gv.at/amtshelfer/dokumente/personenwesen/einwanderung/anmeldebescheinig ung.html

If you have a different citizenship but are entitled to participate in the ECTS program (see general introduction), please contact your Institutional Coordinator for visa requirements.

3.7 Registration with the Vienna City Administration

Once in Austria, you have to register with the Vienna City Administration within three days of arrival. This is done by filling in a registration form (Meldezettel) and submitting it to the Municipal District Offices. You can obtain this form in every Municipal District Office or you can download it from the website of the Municipal Administration of Vienna:

- 1 http://www.wien.gv.at/amtshelfer/dokumente/verwaltung/meldeservice/anmeldung.html
- 1 http://www.wien.gv.at/verwaltung/meldeservice/stellen.html

3.8 Arrival

Students are strongly advised to arrive several days before the actual start of the semester. This gives you time to settle in and to become acquainted with the system. Many of the applications for practicals and the introductory lectures take place on the first days of the semester! You are bound to miss them if you only arrive during that period!

The Medical University building should be your first stop when you arrive in Vienna. In the International Mobility Office (Büro für Internationale Mobilitätsprogramme) you will be provided with information on registration, housing, insurance, orientation session, etc.

Enter the building through the main entrance on the Spitalgasse. Immediately to your left there is an information booth where you can ask for directions.

The office hours of the International Mobility Office are: Monday, Wednesday and Friday from 09.00 to 12.00, Tuesday from 13.00 to 15.00 and Thursday from 14.00 to 17.00.



3.9 ECTS Coordination

The Departmental Coordinator is responsible for the academic contents of ECTS exchange programs. He is charged with the evaluation of the study programs of outgoing and incoming students, with the selection and nomination of outgoing students, and with the confirmation of credits on the transcripts of work.

The Institutional Coordinator is responsible for the administrative procedures of ECTS exchange programs. This includes the financial administration, accommodation, information of incoming and outgoing students, and the preparation and distribution of application forms, transcripts, etc.

The Student Advisors from the Student Union (Universitätsvertretung an der Medizinischen Universität Wien) will help you with all questions concerning practical aspects of your studies, such as choice and location of courses, timing and application for practicals, clerkships, exams, or any other practical problems that arise.

Please help to keep redundancies in counselling low by addressing coordinators and advisors with problems that fall into their respective responsibilities. Names, addresses, telephone and fax numbers are listed below.

3.10 ECTS - Team

Institutional Coordinator & Departmental Coordinator:

Human Salemi, MSc, DSc International Mobility Office Medical University of Vienna A-1090 Vienna, Austria Tel: + 43 - 1 - 40160 - 21023 Fax: + 43 - 1 - 40160 - 921001 human.salemi@meduniwien.ac.at

International Mobility Officer:

Christine Hanisch, MA (in charge of incoming students) International Mobility Office Spitalgasse 23 A-1090 Vienna, Austria Tel: + 43 - 1 - 40160 - 21014 Fax: + 43 - 1 - 40160 - 921001 christine.Hanisch@meduniwien.ac.at *currently maternity leave*



4 THE DIPLOMA STUDIES OF MEDICINE N202

THE VIENNA MEDICAL CURRICULUM is based on integration of non-clinical and clinical learning: in every single **learning unit (Module)** students will learn about structure and function, as well as the most important and most frequent diseases and therapies. In addition there are courses called "Lines" which take place throughout the semester. They establish the connection to clinical work with their focus on clinical skills.

Problem based learning (PBL) and **Case based learning (CBL)** supplement other instructional methods.

The third stage of study (semester 9-12) emphasises intensive clinical training.

Practice-orientation is the most outstanding feature of the Viennese Medical Curriculum. The first patient contact takes place during the third semester.

In this curriculum there are different kinds of examinations:

Practical courses and seminars with immanent examination character (assessment on the basis of permanent written or oral contributions within the framework of the course). Another form of seminar is **team-based learning**.

FIPs (FORMATIVE INTEGRATED EXAMS) at the end of each winter semester: this multiple choice exam gives feedback to the students about their learning performance.

SIPs (SUMMATIVE INTEGRATED EXAMS) at the end of each academic year: here the course content of the whole academic year is examined with multiple choice questions. This exam must be passed to receive ECTS credits for the courses of the preceding academic year.

The duration of the diploma studies of medicine is 12 semesters:

The first stage of study covers 2 semesters.

The second stage of study covers 6 semesters.

The **third stage of study** covers 4 semesters (including the Clinical Practical Year of 48 weeks held first in 2014/15)

As a graduation requirement students are required to write a diploma thesis. The modules 7, 17, 24 and the Line "Scientific Methods" focus on scientific training and enable students to perform the research for their thesis.

In addition, students have to take a series of **clinical clerkships** for a total of 12 weeks.



I. Stage of Study (2 terms)								
Semester 1 (Winter Term)								
Module	Code / Year		ECTS-Cr	edits				
		Lecture	Practical/ Seminar	Total				
Health and Diseases	1DIPLM M1	4,7	1,6	6,3				
The Human Body	1DIPLM M2	10,0	1,6	11,6				
From Molecule to Cell	1DIPLM M3	9,0	2,5	11,5				
Social Skills	1DIPLM L1		2,6	2,6				
First Aid	1DIPLM L2		1,1	1,1				
Problem oriented learning (POL)	1DIPLM POL		1,1	1,1				
	-			34,2				
Semester 2 (Summer Term)	-	-						
Functional Systems and Biological Regulation	1DIPLM M4	6,5	3,3	9,8				
Genetics, Molecular & Cellular Communication	1DIPLM M5	4,0	1,7	5,7				
Environment, Family & Society	1DIPLM M6	4,8	1,2	6,0				
Health Assessment	1DIPLM L3		1,1	1,1				
Problem oriented learning (POL)	1DIPLM POL		2,2	2,2				
Optional Subjects	1DIPLM OPT			1,0				
		•		25,8				
per anno			-	60				
II.	Stage of Study (4	4 terms)						
Semester 3 (Winter Term)								
Science & Medicine (SSM I)	2DIPLM M7	1,4	4,1	5,5				
Disease, Origin & Symptoms	2DIPLM M8	8	3	11				
Disease, Manifestation & Perception &	2DIPLM M9	6,2	4,9	11,1				
General Pharmacotherapy								
Medical Interview A	2DIPLM L4A		1,0	1,0				
Basic Medical Skills	2DIPLML5		1,0	1,0				
Problem oriented learning (POL)	2DIPLM POL		2,1	2,1				
Optional Subjects	2DIPLMOPT3			2,0				
				33,7				
Semester 4 (Summer Term)								
Endocrinology and Metabolism	2DIPLM M10	3,5	0,7	4,2				
Cardiovascular System and Blood	2DIPLM M11	5,3	2,9	8,2				
Respiratory System	2DIPLM M12	3,3	1,1	4,4				
Physical Examination Techniques	2DIPLM L6		1,0	1,0				
Propaedeutics in Clerkship	2DIPLM L7		1,0	1,0				
Organ Morphology I	2DIPLM L8A		3,3	3,3				
Case Based Learning (CBL)	2DIPLM CBL		2,1	2,1				
Optional Subjects	2DIPLM OPT4			2,0				
				26,3				
per anno				60				
Semester 5 (winter5 lerm)			1 /	F 0				
NUTRITION and Digestion		3,7	1,6	5,3				
Kigney and Homeostasis		2,8	1,2	4,U				
Birth	3DIPLMM15	4,1	1,2	5,3				
Intants, Childhood and Adolescence	3DIPLMM16	5,4	1,2	6,6				
Case Based Learning (CBL)	3DIPLMCBL	-	1,9	1,9				
Organ Morphology II	3DIPLM L8B	-	3,6	3,6				
Specific Examination Techniques I	3DIPLM L9A	-	0,9	0,9				
Resuscitation Techniques I	3DIPLM L10A		0,9	0,9				
Clerkship	3DIPLMCLS1			2,0				
Uptional Subjects	3DIPLMOPT5			2,0				
				32,5				



Module	Code / Year		lits	
	-	Lecture	Practical/ Seminar	Total
Methodology of Medical Science - SSM2	3DIPLM M17	1,0	4,1	5,1
Skin and Sensory Organs	3DIPLM M18	4,6	1,0	5,6
Brain & Nervous System	3DIPLMM19	6,6	1,0	7,6
Neurological Status	3DIPLML11		0,9	0,9
Medical Interview B	3DIPLM L4B		0,9	0,9
Organ Morphology III	3DIPLML8C		2,4	2,4
Clerkship	3DIPLMCLS2			2,0
Optional Subjects	3DIPLMOPT6			3,0
				27,5
per anno				60
Semester 7 (Winter Term)		- 	· · · · · · · · · · · · · · · · · · ·	
Module	Code / Year		ECTS-Crea	lits
		Lecture	Practical/ Seminar	Total
Public Health	4DIPLMM22/23	4,5	2	6,5
Locomotion, Performance and Pain	4DIPLM M21	4	0,6	4,6
Surgery	4DIPLM M25	5,3		5,3
Dermatology and Venerology	4DIPLM M26	1	3,7	4,7
Internal Medicine	4DIPLM M27		5	5
Specific Diagnostic Skills	4DIPLM L12		0,9	0,9
Basics in Sonography	4DIPLM L13		0,5	0,5
Specific Examination Techniques II	4DIPLM L9B		0,9	0,9
Optional Subjects	4DIPLM OPT7			3,0
Clerkship	4DIPLMCLS3			2,0
				33,4
Semester 8 (Summer Term)				
Psychic Functions in Health and Disease, Medical Interview C	4DIPLM M20	4	2,5	6,5
Project Studies (SSM III)	4DIPLM M24	0,8	3,1	3,9
Integrated Clinical Practical Propaedeutics	4DIPLM L14		1,8	1,8
Specific Examination Techniques III	4DIPLML9C		0,9	0,9
Resuscitation Techniques II	4DIPLML10B		0,5	0,5
Clerkship	4 DIPLMCLS4		İ	2,0
Optional Subjects	4DIPLMOPT8		İ	2,0
Diploma Thesis A	4DIPLM THSA			9,0
	·		·	26,6



III. Stage of Study (6 terms)										
Semester 9 (Winter Term)										
Module		ECTS-C	redits							
	Lecture	Practical/ Seminar	Clinical Practical	Total						
Neurology	5DIPLMNEUR	1,3	2,2	3,2	6,7					
Psychiatry	5DIPLMPSYC	1,3	2,6	2,9	6,7					
Pediatrics	5DIPLMPED	1,9	1,9	2,9	6,7					
Clinical Diagnostics	5DIPLML15		1,4		1,4					
Interdisciplinary Patients Management	5DIPLML17		2,9		2,9					
Scientific Methods (SSM 4)	5DIPLML18		1,4		1,4					
Semester 10 (Summer Term)	•									
Gynaecology & Obstetrics	5DIPLM GYN		2,9	3,8	6,7					
Ophthalmology	5DIPLM OPHT	1,0	1,0	1,9	3,8					
Otolaryngology	5DIPLM ORL	1,3	1,0	1,6	3,8					
Emergency Medicine, Intensive Care	5DIPLM EMM	1,3	1,6	3,8	6,7					
Diploma Thesis B	5DIPLMTHSB				9,0					
Clerkship	5DIPLMCLS5				4,0					
per anno					60					
Semester 11 (Winter Term) + Semester	12 (Summer Term	ป								
Module	Code / Year		ECTS-Credits							
		Lecture	Practical/ Seminar	Clinical Practical	Total					
Internal Medicine				19,7						
Surgery and Preoperative Disciplines				19,7						
Elective Discipline	6DIPLMELEC				19,7					
Return Week	6DIPLML19		1,0		1,0					
per anno					60					



4 THE DIPLOMA STUDIES OF MEDICINE N202







4.1 The First Stage of Study

The first two semesters of the first stage of study comprise compulsory lectures to the extent of 42,3 hours.

MODULE 1 1DIPLMM1 HEALTH AND DISEASES Semester: 1 Lecture: 49 hrs; 4,7 ECTS credits Practical course: 17 hrs; 1,6 ECTS credits Total: 66 hrs; 6,3 ECTS credits Exam: written; part of SIP1

Contents: The lectures and the small group classes introduce students to main focus topics of the medical studies as a first orientation. Topics of general relevance (such as gender specific issues, medical ethics, medical law, proper conduct with patients, etc.) are deepened and rendered more practice-related in instructed classes. Furthermore, students are prepared for the main topics of the modules of the first study year.

MODULE 2 1DIPLMM2 THE HUMAN BODY

Semester: 1 Lecture: 104 hrs; 10 ECTS credits Practical course: 16 hrs; 1,6 ECTS credits Total: 120 hrs; 11,6 ECTS credits Exam: written; part of SIP1

Contents: The course focuses on morphology and physiology of all organ systems of both genders, especially on the musculoskeletal system, circulatory system, respiratory system, digestive system, urogenital system, endocrine and nervous systems (lecture + practical). After an introductory seminar on the basics of medical imaging as well as physics and radiation protection, the contents of the course are also taught and learnt in the context of clinical sample applications in radiological anatomy.

MODULE 3 1DIPLMM3

FROM MOLECULE TO CELL

Semester: 1 Lecture: 94 hrs; 9,0 ECTS credits Practical course: 26 hrs; 2,5 ECTS credits Total: 120 hrs; 11,5 ECTS credits; Exam: written; part of SIP1

Contents: After a presentation of physical-chemical principles essential for a general understanding of modern cell biology, the course deals with organization of pro- and eukaryotes, cellular compartments, cell organelles, metabolism, energy production, transport, homeostasis, signal transduction, cell dynamics, information, organization of the nucleolus, cell division, cell death.

This basic knowledge is supported by clinical studies for a general understanding of normal cell behaviour as well as pathomechanisms.



The practical provides an introduction to expert methodology and laboratory work. In the seminar the fundamental concepts are discussed and applied through examples.

LINE 1 1DIPLML1 SOCIAL SKILLS Semester: 1 Practical course: 30 hrs; 2,6 ECTS credits Total: 30 hrs; 2,6 ECTS credits Exam: immanent examination character

Contents: The line element consists of an introductory seminar, a practical course and a tutorial. The seminar covers the theoretical aspects of the topic whereas during the practical students make direct contact with patients in need of care. Additionally, the observations are reflected and discussed in the weekly tutorial. The goal is to sensitize the student for adequate communication, empathy and appreciation during the treatment of patients as well as for professional behaviour in the interdisciplinary team. Furthermore, the aim is to encourage critical reflexion as well as the awareness of gender specific, social and cultural issues influencing health and disease.

LINE 2A 1DIPLML2A FIRST AID Semester: 1 Practical course: 15 hrs; 1,1 ECTS credits Total: 15 hrs; 1,1 ECTS credits Exam: immanent examination character Contents: Goal of the practical is to practice the required skills to give efficient and proper First Aid (on a manikin) according to general guidelines.

LINE POL 1DIPLMPOL

PROBLEM-ORIENTED LEARNING

Semester: 1

Practical course: 15 hrs; 1,1 ECTS credits

Exam: immanent examination character

Contents: Goal of the seminar is to impart basic problem-oriented learning (POL) and illustrate the principles of this teaching method by means of practical examples.

MODULE 4 1DIPLMM4

FUNCTIONAL SYSTEMS AND BIOLOGICAL REGULATION Semester: 2 Lecture: 68 hrs; 6,5 ECTS credits Practical course: 34 hrs; 3,3 ECTS credits Total: 102 hrs; 9,8 ECTS credits

Exam: written; part of SIP1

Contents: The lecture gives an overview of the functions of the somatic and vegetative nervous system, the inner organs, and the physiologic and biochemical aspects of metabolism with regard to the endocrine regulation. In the practical, the students learn examination methods of basic body systems



(respiration, circulatory system, muscular functions, equilibrium, neuronal regulation) as well as basic blood work analysis.

MODULE 5 1DIPLMM5 GENETICS, MOLECULAR & CELLULAR COMMUNICATION Semester: 2

Lecture: 42 hrs; 4,0 ECTS credits Practical course: 18 hrs; 1,7 ECTS credits Total: 60 hrs; 5,7 ECTS credits

Exam: written; part of SIP1

Contents: In the lecture, the seminar and the practical the organization of the Human Genome, including principles of inheritance, genetic expression, and the cell cycle are discussed. Furthermore, students are taught the basics of genetic technology, as well as its application in diagnostics and therapy. Additionally, medical ethical aspects of gene technology are discussed. Lastly, molecular aspects of morphogenesis are introduced.

MODULE 6 1DIPLMM6 THE HUMAN IN ENVIRONMENT, FAMILY & SOCIETY Semester: 2

Lecture: 50 hrs; 4,8 ECTS credits Practical course: 12 hrs; 1,2 ECTS credits Total: 62 hrs; 6 ECTS credits Exam: written; part of SIP1

Contents: The lecture deals with the basics of external causes for diseases and aspects of evolutionary biology, psychology, sociology, ethics, gender specific issues, and cross culture influencing health and pathology, examines the healthy and pathological psyche regarding disease, death, and dying with a focus on environment, such as working environment, including the basics of radiation protection and radiation biology, the psyche, the stages of life and family. Through discussion and practice in small groups as well as through private study the theoretic part is practically applied.

LINE 3 1DIPLML3

HEALTH ASSESSMENT

Semester: 2

Practical course: 15 hrs; 1,1 ECTS credits

Exam: immanent examination character

Contents: The students practice physical examination techniques on the healthy human as well as basic techniques of infection control and hygiene.

LINE POL 1DIPLMPOL

PROBLEM-ORIENTED LEARNING

Semester: 2

Practical course: 30 hrs; 2,2 ECTS credits

Exam: immanent examination character

Contents: Goal of the seminar is to impart basic problem-oriented learning (POL) and illustrate the principles of this teaching method by means of practical examples.



4.2 The Second Stage of Study

During the six semesters of the second stage of study students have to attend compulsory courses to the extent of 123,1 hours and optional subjects to the extent of 8,7 hours. The courses are held in the form of lectures, seminars and practicals.

MODULE 7 2DIPLMM7 SPECIFIC STUDY MODULE 1 (SSM1): SCIENCE & MEDICINE Semester: 3 Lecture: 15 hrs; 1,4 ECTS credits Practical course: 45 hrs; 4,1 ECTS credits

Total: 60 hrs; 5,5 ECTS credits

Exam: written and immanent examination character

Contents: The lecture deals with the basics of medical science (structure, research methods) followed by an introduction to Evidence Based Medicine. The practical imparts medical information research (literary research in particular) as well as an introduction to computer based learning. The compulsory optional part provides a first insight into scientific work: the student has to research literature, compile an annotated bibliography and compose as well as present an abstract on a concrete topic.

MODULE 8 2DIPLMM8 DISEASE, ORIGIN & SYMPTOMS Semester: 3 Lecture: 87 hrs; 8 ECTS credits

Practical course: 33 hrs; 3,0 ECTS credits Total: 120 hrs; 11 ECTS credits; Exam: written; part of SIP2

Contents: The basics of patho-morphological response forms (necrosis, inflammation, tumour), general infectiology, mechanisms of unspecific and specific (immunologic) defence, genetic and gender specific factors of pathogenesis, causes and mechanisms of canceration, patho-genetic mechanisms within the formation of vascular-, clotting- and degenerative diseases, neurobiological basics as well as psychosocial factors of pathogenesis are discussed in the lecture. Practicals and seminars illustrate the contents of the abovementioned topics and allow insight into the methods and significance of applied diagnostic techniques. The patho-physiological principles of the development of clinical disease patterns are illustrated by means of prevalent or important examples.

MODULE 9 2DIPLMM9 MANIFESTATION AND PERCEPTION OF DISEASES, GENERAL PHARMACOTHERAPY Semester: 3

Lecture: 67 hrs; 6,2 ECTS Practical course: 53 hrs; 4,9 ECTS credits Total: 120 hrs; 11,1 ECTS credits Exam: written; part of SIP2 Contents: Within the scope of a lecture and a seminar the somatic, mental, as well as gender specific causes and appearances of diseases are illustrated on the basis of prevalent, significant and exemplary



patterns of disease. Furthermore, the principles of general pharmacotherapy are introduced. Other contents are prevention, diagnostics, and therapy of micro-biologic diseases.

LINE 4A 2DIPLML4A MEDICAL INTERVIEW A

Semester: 3

Practical course: 15 hrs; 1,0 ECTS credits

Exam: immanent examination character

Contents: In this practical the student gets to know and practise the underlying general, medical, biographic, familiar, psycho-social and gender specific aspects of medical interviews in instructed small group classes. Students practice the first medical interview with a patient. The principles of competent communication with patients about diagnostic and therapeutical steps are acquired.

LINE 5 2DIPLML5 BASIC MEDICAL SKILLS Semester: 3

Practical course: 15 hrs; 1,0 ECTS credits

Exam: immanent examination character

Contents: The goal of the practical course is the standardised impartation of a clinical basic competence in medical skills (eg. taking blood samples, inserting a urinary catheter, etc.), as well as in hygienic behaviour and skills (hand hygiene, non-touch-technique etc.). The contents are taught and practised in small group lectures by means of simulation models.

LINE POL 2DIPLMPOL PROBLEM-ORIENTED LEARNING Semester: 3

Practical course: 30 hrs; 2,1 ECTS credits

Exam: immanent examination character

Contents: Goal of the seminar is to impart basic problem-oriented learning (POL) and illustrate the principles of this teaching method by means of practical examples.

MODULE 10 2DIPLMM10 ENDOCRINOLOGY AND METABOLISM Semester: 4 Lecture: 38 hrs; 3,5 ECTS credits

Practical course: 8 hrs; 0,7 ECTS credits

Total: 46 hrs; 4,2 ECTS credits

Exam: written; part of SIP2

Contents: The lecture introduces anatomic, histological, physiologic and biochemical basics followed by the discussion of prevalent diseases of the endocrine organs, disorders of the carbohydrate-, protein- and lipid metabolism as well as diagnostic and therapeutic measures. The contents of the lecture are discussed in more detail in the seminar.



MODULE 11 2DIPLMM11 CARDIOVASCULAR SYSTEM AND BLOOD Semester: 4 Lecture: 58 hrs; 5,3 ECTS credits Practical course: 32 hrs; 2,9 ECTS credits

Total: 90 hrs; 8,2 ECTS credits Exam: written; part of SIP2

Contents: In the first part of the lecture the student is provided with basic knowledge about constitution, function and development of the cardiovascular as well as the haematopoietic system in connection with clinical problems and with regard to gender specific aspects. The second part introduces cardiovascular and blood diseases in synopsis of pathology and clinic, diagnostics, therapy, prevention and rehabilitation. The practical consists of medical-chemical and physical exercises as well as an ECG course. The seminar deals with pharmacology and pharmacotherapy of the cardiovascular and blood diseases.

MODULE 12 2DIPLMM12 RESPIRATORY SYSTEM Semester: 4

Lecture: 36 hrs; 3,3 ECTS credits Practical course: 12 hrs; 1,1 ECTS credits Total: 48 hrs; 4,4 ECTS credits Exam: written; part of SIP2

Contents: The goal of the lecture is the consolidation of physiological and patho-physiological basics of the respiratory tract considering gender specific aspects as well as the impartation of the most prevalent diseases of the upper and the lower respiratory tracts, the pathogenesis thereof (including psychosomatic causes), diagnostic and therapeutic possibilities.

The interdisciplinary lecture also includes physiology, anatomy, physics, histology, pneumology, anaesthology, cardio-thoracic surgery, radiology and paediatrics. In the seminar and the practical students develop relevant disease patterns of the respiratory tract in an interdisciplinary way.

LINE 6 2DIPLML6 PHYSICAL EXAMINATION TECHNIQUES Semester: 4

Practical course: 15 hrs; 1,0 ECTS credits

Exam: immanent examination character

Contents: The goal of the practical is the acquisition of the physical examination of women and men in order to determine a status praesens. Also the topic of basic hygienic behaviour is raised.

LINE 7 2DIPLML7 PROPEDEUTIC IN CLERKSHIP

Semester: 4 Practical course: 15 hrs; 1,0 ECTS credits

Exam: immanent examination character **Total**: 15 hrs; 1,0 ECTS credits



Contents: Goal of the practical is the consolidation of the contents of the line elements of semester 3 and 4 (Basic Medical Skills, Medical Interview I + II, Physical Examination Techniques) as well as the examination of the acquired skills. The course prepares directly for the clerkship.

LINE 8A 2DIPLML8A ORGAN MORPHOLOGY I

Practical course: 48 hrs; 3,3 ECTS credits

Total: 48 hrs; 3,3 ECTS credits

Exam: immanent examination character

Contents: The range of module-overlapping lectures with immanent examination character aims at the establishment of a connection to the interpretation of anatomic conditions in a clinical-diagnostic context by means of practical dissection on a body in integration with diagnostic imaging techniques and radiation protection as well as at an understanding of clinically relevant topographic relations to the execution of surgical interventions. After an introductory stage during the dissection process reference is also made to the organ systems which are dealt with in the parallel modules 10-12.

LINE CBL 2DIPLMCBL CASE-BASED LEARNING Semester: 4

Practical course: 30 hrs; 2,1 ECTS credits

Contents: Goal of the course is the qualification of students to record and successfully treat clinical case histories. Contents are oriented on the modules held parallel to the respective CBL. Imparted knowledge is thereby deepened with the help of practical case studies. Students get to practice the making of a diagnosis as well as the principles of therapies. The course is held interactively under the instruction of clinicians from the respective clinical field. Students are introduced into clinical thinking and work. Gender-specific aspects are considered for the selection of case studies.

MODULE 13 3DIPLMM13 NUTRITION AND DIGESTION

Semester: 5

Lecture: 45 hrs; 3,7 ECTS credits Practical course: 19 hrs; 1,6 ECTS credits Total: 64 hrs; 5,3 ECTS credits Exam: written; part of SIP3

Contents: The lecture deals with the anatomy, histology, physiology and pathology of the gastrointestinal tract including disorders and diseases of the oropharyngeal, esophageal, gastric-, intestinal-, hepatic, and pancreatic sphere. Causes, consequences and therapeutic measures in nutritional disturbances are discussed. The seminars and practicals serve as consolidation of the aspects of important and prevalent diseases of the gastro-intestinal tract and dietetics as gathered in the lecture – with special regard to gastro-intestinal diseases (diarrhoea, constipation, inflammable diseases), psychosomatic disorders, impact of nutrition on health resp. on course of the disease and nutrition disorders as cause of diseases. Furthermore, important diagnostic and therapeutic possibilities of intervention (e.g. endoscopic techniques) are introduced.



MODULE 14 3DIPLMM14 KIDNEY AND HOMEOSTASIS Semester: 5 Lecture: 34 hrs; 2,8 ECTS credits Practical course: 14 hrs; 1,2 ECTS credits Total: 48 hrs; 4,0 ECTS credits

Exam: written; part of SIP3

Contents: In the lecture and the practical the student learns about the development, anatomy, function and prevalent diseases of the kidney and the urinary tract collection system as well as the role of the kidney in water-electrolyte imbalances and disorders of the acid-base balance with regard to gender specific and psychosocial aspects.

Additionally, consequences of renal function disorders on the metabolism in the total organism are discussed.

MODULE 15 3DIPLMM15 SEXUALITY, REPRODUCTION, GRAVIDITY AND BIRTH

Semester: 5 Lecture: 50 hrs; 4,1 ECTS credits Practical course: 14 hrs; 1,2 ECTS credits Total: 64 hrs; 5,3 ECTS credits

Exam: written; part of SIP3

Contents: The lecture introduces the anatomic, histological, physiologic, and biochemical basics of reproduction, the seminar addresses sexuality, ethics, psychosocial and forensic medical issues. In the practical, gravidity and birth problems are introduced and discussed in small groups.

MODULE 16 3DIPLMM16 INFANTS, CHILDHOOD & ADOLESCENSE

Semester: 5 Lecture: 65 hrs; 5,4 ECTS credits Practical course: 15 hrs; 1,2 ECTS credits Total: 80 hrs; 6,6 ECTS credits

Exam: written; part of SIP3

Contents: In the lecture, the student is provided with the characteristics of diseases during childhood and adolescence including the physiological, biochemical, morphological, genetic, patho-physiological, psychosocial, and gender specific basics. These basics are discussed in more detail by means of representative examples taken from paediatric sub-specialities.

LINE 8B 3DIPLML8A ORGAN MORPHOLOGY II

Practical course: 58 hrs; 3,6 ECTS credits

Total: 58 hrs; 3,6 ECTS credits

Exam: immanent examination character

Contents: The range of module-overlapping lectures with immanent examination character aims at the establishment of a connection to the interpretation of anatomic conditions in a clinical-diagnostic context by means of practical dissection on a body in integration with diagnostic imaging techniques



and radiation protection as well as at an understanding of clinically relevant topographic relations to the execution of surgical interventions.

After an introductory stage during the dissection process reference is also made to the organ systems which are dealt with in the parallel modules 13-15 and as well to the anatomical basics for the modules 19 and 21.

LINE 9A 3DIPLML9A SPECIFIC EXAMINATION TECHNIQUES I Semester: 5

Practical course: 15 hrs; 0,9 ECTS credits

Total: 15 hrs; 0,9 ECTS credits

Exam: immanent examination character

Contents: The practical imparts clinical skills and examination techniques with regard to the Competence Level Catalogue for Medical Skills.

LINE 10A 3DIPLML10A

RESUSCITATION TECHNIQUES I

Semester: 5

Practical course: 15 hrs; 0,9 ECTS credits

Total: 15 hrs; 0,9 ECTS credits

Exam: immanent examination character

Contents: In the practical - which is based on the First Aid course in the first stage of study - students get to practise in small groups enhanced resuscitation techniques and emergency care on manikins.

LINE CBL 3DIPLMCBL CASE-BASED LEARNING

Semester: 5

Practical course: 30 hrs; 1,9 ECTS credits

Contents: Goal of the course is the qualification of students to record and successfully treat clinical case histories. Contents are oriented on the modules held parallel to the respective CBL. Imparted knowledge is thereby deepened with the help of practical case studies. Students get to practice the making of a diagnosis as well as the principles of therapies. The course is held interactively under the instruction of clinicians from the respective clinical field. Students are introduced into clinical thinking and work. Gender-specific aspects are considered for the selection of case studies.

MODULE 17 3DIPLMM17 SPECIFIC STUDY MODULE 2 (SSM2): METHODOLOGY OF MEDICAL SCIENCE Semester: 6 Lecture: 12 hrs; 1 credit Practical course: 50 hrs; 4,1 ECTS credits Total: 62 hrs; 5,1 ECTS credits Exam: written and immanent examination character Contents: Consists of a compulsory and an optional part. The compulsory part comprises a lecture and a seminar which imparts the statistical basics for the planning of scientific studies and the evaluation



of projects; the role of random fluctuation, measuring errors and biological variability is also considered. International applicable standards in this domain are addressed with the help of examples. In the small group courses (practical and seminar) of the optional part the student gets to know the individual techniques of scientific work (laboratory, socio-scientific/psychological measuring methods). The application of the techniques focuses on a certain medical problem also considering methods of quality inspection and insurance.

MODULE 18 3DIPLMM18 SKIN AND SENSORY ORGANS

Semester: 6 Lecture: 56 hrs; 4,6 ECTS credits Practical course: 12 hrs; 1 ECTS credits Total: 68 hrs; 5,6 ECTS credits Exam: written; part of SIP3 Contents: Comprises a lecture and a pra

Contents: Comprises a lecture and a practical which introduce the anatomic, physiological and pathophysiological principles of the skin and sensory organs on the basis of prevalent diseases.

MODULE 19 3DIPLMM19

BRAIN AND NERVOUS SYSTEM

Semester: 6 Lecture: 81 hrs; 6,6 ECTS credits Practical course: 12 hrs; 1,0 ECTS credits Total: 93 hrs; 7,6 ECTS credits Exam: written; part of SIP3 Contents: In the lecture, the physiologica

Contents: In the lecture, the physiological and pathological basics of the functions of the nervous system, neurological symptoms and syndromes are presented. The topics of the practical and the seminars are demonstrated and interactively discussed in small groups.

LINE 11 3DIPLML11 NEUROLOGICAL STATUS Semester: 6 Practical course: 15 hrs; 0,9 ECTS credits Total: 15 hrs; 0,9 ECTS credits Exam: immanent examination character Contents: In this practical the student acquires the neurological examination techniques and practices the determination of a neurological status.

LINE 4B 3DIPLML4B MEDICAL INTERVIEW B Semester: 6 Practical course: 15 hrs; 0,9 ECTS credits Total: 15 hrs; 0,9 ECTS credits Exam: immanent examination character Contents: The abilities as conveyed in "Medical Interview A" are practised and deepened in small groups.



LINE 8C 3DIPLML8C ORGAN MORPHOLOGY III Practical course: 38 hrs; 2,4 ECTS credits Total: 38 hrs; 2,4 ECTS credits Exam: immanent examination character Contents:

This range of module-overlapping lectures with immanent examination character aims at the establishment of a connection to the interpretation of anatomic conditions in a clinical-diagnostic context by means of practical dissection on a body in integration with diagnostic imaging techniques and radiation protection as well as at an understanding of clinically relevant topographic relations to the execution of surgical interventions.

After an introductory stage during the dissection process reference is also made to the anatomical basics of the organ systems which are dealt with in the modules 18, 19 and 21.

MODULE 22/23 4DIPLMM22/3 PUBLIC HEALTH Semester: 7

Lecture: 68 hrs; 4,5 ECTS credits Practical course: 32 hrs; 2 ECTS credits Total: 100 hrs; 6,5 ECTS credits Exam: written; part of SIP4a

This module introduces the basics of health care systems research, medical care research, health economics, medico actuarial science, and quality assurance within the health care system in lectures as well as deepens in seminars the medical application of the contents with special regard to fault management and systematic medical care. Furthermore, there are lectures on medical law and medical ethics as well as ethics in health care systems, as well as a seminar on ethical medical conduct. The topic of preventive medicine discusses the basics of preventive medicine, occupational medicine, environmental medicine as well as rehabilitation in lectures as well as deepens the contents in seminars and practicals with special regard to life-style-medicine, prevention within the bio-psychosocial context, environmental medical methods and immunization policies in the health care system. The completion of the competence level catalogue is considered with regard to the taking of an occupational and workplace related history as well as a travel medical history. Another focus of the module, geriatrics, discusses the warious dimensions of geriatric assessment (according to the competence level catalogue) in seminars. Furthermore, clinical, ethical, legal, preventive and rehabilitative topics as well as topics relating to medical care are treated.

MODULE 21 4DIPLMM21 LOCOMOTION, PERFORMANCE AND PAIN Semester: 7

Lecture: 60 hrs; 4 ECTS credits Practical course: 8 hrs; 0,6 ECTS credits Total: 68 hrs; 4,6 ECTS credits; Exam: written; part of SIP4a



Contents: The students learn about the specific, normal and pathological processes of muscular and skeletal system with regard to biomechanical, anatomic, physiological, and gender specific basics as well as about the principles of performance physiology and training theory.

The course introduces physiological stress and resilience of the muscular skeletal system including resulting degenerative diseases as well as soft tissue and bone injuries, tumours, vascular bone diseases, rheumatic systemic diseases, metabolic osteopathy and infections and infections and inflammations syndromes and as well the principles of pain emergence and treatment are presented. In addition to diagnostics and therapy, psychic, social and gender specific aspects including principles of rehabilitation are discussed.

Two thirds of the knowledge transfer takes place in the form of lectures, the remaining part in seminars and practicals. Instructed studies with the help of digital tuition materials complete the course offerings.

MODULE 25 4DIPLMM25 SURGERY Semester: 7 Lecture: 80 hrs; 5,3 ECTS credits Total: 80 hrs; 5,3 ECTS credits

Exam: written; part of SIP4a

The module presents a systematic overview of principles of treatment of different surgical disciplines and demonstrates them with the help of practical case studies. The goals are to enable the student to collate the findings of surgically relevant diseases and to interpret them correctly, to make a correct diagnosis and a differential diagnosis and suggest suitable treatment methods. Students deepen the skills through self-study of the mentioned references and provided summaries.

MODULE 26 4DIPLMM26 DERMATOLOGY & VENEROLOGY

Semester: 7 Lecture: 15 hrs; 1 ECTS credits Practical course: 55 hrs; 3,7 ECTS credits Total: 70 hrs; 4,7 ECTS credits Exam: written; part of SIP4a

In this course the students are provided with knowledge about praxis-relevant disease patterns of dermatology and venerology. The lecture introduces the systematics of dermato-venerologic diseases as well as their epidemiology and pathogenetic aspects of prevalent disease patterns. The interactive clinic presents real patient cases by means of digital media. The module furthermore discusses diagnostic procedures and differential diagnosis and imparts knowledge about evidence-based therapy options. The students take actively part in the diagnostic procedures and the development of therapies by means of interactive methods. The dynamics of skin diseases are demonstrated on the basis of the development of the disease patterns presented over several days. The seminar treats practical aspects of the discipline in detail and documents dermato-venerological examinations and interventions with the aid of digital media. The seminars are accompanied by interactive test procedures serving as wrap-up of the learning contents. Students are provided with the prevalent dermato-venerological disease patterns in the form of electronic cases for self-study.



MODULE 27 INTERNAL MEDICINE Semester: 7 Practical course: 75 hrs; 5 ECTS credits Total: 75 hrs; 5 ECTS credits Exam: written; part of SIP4a

The module comprises the acquisition of knowledge on manifestation, diagnosis and therapy of prevalent disease patterns and symptoms of internal medicine as well as the ability to present patient cases and demonstrate the required diagnostic and therapeutic procedures.

MODULE 20 4DIPLMM20 PSYCHIC FUNCTIONS IN HEALTH AND DISEASE Semester: 7

Lecture: 62 hrs; 4 ECTS credits Practical course: 38 hrs; 2,5 ECTS credits Total: 100 hrs; 6,5 ECTS credits Exam: written; part of SIP4a

Contents: Goal of the lecture is the presentation of basics for the evaluation of the normal and abnormal psychic functions as well as for the continuity between normality and pathology. For this purpose the most important psychological schools of thought are introduced (e.g. the psychodynamic, humanistic and didactic theoretical) and the significance of genetic, biological, gender specific and social factors (including social-cultural contexts) are discussed. Furthermore, the principles of psychopathological diagnostics are presented. In the seminar, the students are provided with psychiatric diagnostic schemes as well as with the basic principles of the exploration technique. With the help of casuistics (audio- and video presentations) the students practice the perception of the (affective) involvement of patients.

The basics of therapeutic principles in pharmaco-, psycho- and social therapy are taught in small groups. In the practical part students systematically practice specific communication and reflection skills in relation to epidemiologically important diseases.

MODULE 24 4DIPLMM24 SPECIFIC STUDY MODULE 3 (SSM 3): PROJECT STUDIES Semester: 8 Lecture: 12 hrs; 0,8 ECTS credits Practical course: 66 hrs; 3,1 ECTS credits Exam: written and immanent examination character Total: 78 hrs; 3,9 ECTS credits

Contents: Consists of an obligatory and an obligatory optional part. The obligatory part "Methodology of Medical Sciences" introduces within a lecture and a practical medical informatics, evidence based medicine, quality assurance and data protection as well as biosignal recording, data processing, the composition and presentation of scientific studies. The obligatory optional part "project study" comprises a practical which deals with the problem of a selected topic and the accomplishment of a scientific study, as well as the gathering, analysis, interpretation and discussion of data. Finally, the student presents his/her project either in the form of a poster presentation or a short lecture.



LINE 12 4DIPLML12 SPECIFIC DIAGNOSTIC SKILLS

Semester: 7

Practical course: 15 hrs; 0,9 ECTS credits

Total: 15 hrs; 0,9 ECTS credits

Exam: immanent examination character

Contents: Aim is to deepen skills within the scope of laboratory medicine, radiology, nuclear medicine, clinical pathology, microbiology, virology, and blood group serology, all of which being precondition for the clinical practicals of the third stage of study. In addition to indication, students practise principles of apparative diagnostics and posing clinical diagnoses on the basis of classic constellations of diagnostic findings, such as diagnostic imaging with special regard to radiation protection

LINE 9B 4DIPLML9B SPECIFIC EXAMINATION TECHNIQUES II

Semester: 7

Practical course: 15 hrs; 0,9 ECTS credits

Total: 15 hrs; 0,9 ECTS credits

Exam: immanent examination character

Contents: In this practical the student is provided with clinical skills and medical examination techniques with regard to the Competence Level Catalogue for Medical Skills.

LINE 13 4DIPLML15

BASICS IN SONOGRAPHY

Semester: 7

Practical course: 7 hrs; 0,5 ECTS credits

Total: 7 hrs; 0,5 ECTS credits;

Exam: immanent examination character

Contents: In this course students learn to determine the most important indications in context with other imaging procedures, the basics of examination techniques as well as the sonographic basic symptoms in context with normal anatomy. Courses are based on case studies and practical exercises with the help of exemplary picture documentation equipment. Goal of the practical is the exemplary utilisation of this diagnosis method including the training of the formulation of clinical questions within the scope of interdisciplinary cooperation, the training of an anatomic spatial sense, the understanding of interaction between sound waves and tissue as well as an estimation of one's practical abilities in examination techniques.

LINE 9C 4DIPLML11C SPECIFIC EXAMINATION TECHNIQUES III Semester: 8

Practical course: 15 hrs; 0,9 ECTS credits **Total**: 15 hrs; 0,9 ECTS credits; **Exam**: immanent examination character



Contents: In this practical the student is provided with clinical skills and medical examination techniques with regard to the Competence Level Catalogue for Medical Skills.

LINE 10B 4DIPLML10B RESUSCITATION TECHNIQUES II Semester: 8 Practical course: 7 hrs; 0,5 ECTS credits Total: 7 hrs; 0,5 ECTS credits; Exam: immanent examination character Contents: The basic skills as acquired in the 5th semester line are deepened in a training area set up for this purpose and in a practical.

LINE 14 4DIPLML14 INTEGRATED CLINICAL PRACTICAL PROPAEDEUTICS Semester: 8 Practical course: 30 hrs; 1.8ECTS credits

Total: 30 hrs; 1,8 ECTS credits;

Contents: In this practical the clinical abilities and skills of communication, diagnosis, therapy, reflection and patient management are practised and examined as a conclusion of the practical courses of the first and second stage of studies. Learning targets have been adjusted to the contents of prior content-related courses. The line element serves as preparation for the clinical practicals of the third stage of studies.

4.3 The Third Stage of Study

The third stage of study is divided into blocks ("Tertiale"). One block ("Tertial") is a third of one term of 15 weeks.

In consequence of the curriculum novella 2012, students starting their fifth year of study in 2013/14 will have Neurology, Gynaecology&Obstetrics, Paediatrics, Ophthalmology/ENT, Psychiatry and Emergency Medicine, Intensive Care in semester 9 and 10 and for the first time the Clinical Practical Year in their semester 11 and 12. After the attendance of the Clinical Practical Blocks the students' clinical skills and competencies will be evaluated during a so-called Return-Week.

5DIPLMEMM EMERGENCY MEDICINE & INTENSIVE CARE Semester: 9 or 10 Weeks: 5 Lecture: 20 hrs; 1,3 ECTS credits Practical course: 25 hrs; 1,6 ECTS credits Clinical Practical: 60 hrs; 3,8 ECTS credits Total: 105 hrs; 6,7 ECTS credits



Exam: written; part of SIP5a

Contents: The clinical practical in emergency and intensive care management is held in the form of instructed classes at one of the departments of Emergency Medicine & Intensive Care at the AKH. The lecture deals with relevant issues of emergency and intensive care. In the practical, the student systemically practices manual skills of emergency and intensive medicine.

5DIPLML15 Clinical diagnostics Semester: 9+10 Practical course: 30 hrs, 1,4 ECTS credits Total: 30 hrs, 1,4 ECTS credits Exam: immanent examination character

Contents: The seminar and the practical deal with professional questions from fields significant for clinical diagnostics such as laboratory medicine, radiology, nuclear medicine, clinical pathology, microbiology, virology, blood group serology involving the students into the clinical routine operations – in diagnostic imaging special regard is given to radiation protection.

LINE 18 5DIPLML18 SCIENTIFIC METHODS (SSM 4) Semester: 9 Weeks: 5 Seminar: 30 hrs; 1,4 ECTS credits Total: 30 hrs; 1,4 ECTS credits Exam: immanent examination character Within this specific module students have to do 2 elective subjects as methodical complement to the topic of the diploma thesis.

5DIPLMNEUR NEUROLOGY Semester: 9 or 10 Weeks: 5 Lecture: 20 hrs; 1,3 ECTS credits Practical course: 35 hrs; 2,2 ECTS credits Clinical Practical: 50 hrs; 3,2 ECTS credits Total: 105 hrs; 6,7 ECTS credits Exam: written; part of SIP5a

Contents: The student is provided with knowledge about specific neurological disease patterns in a lecture and a seminar. The basics as acquired in Module 20 are deepened with more detailed knowledge about neurological disease patterns and their aetiology, pathogenesis, and therapy. In the practical the student practices in the more depth the knowledge and skills as acquired in the line element "Neurostatus" (6th semester) as well as the establishment of an anamnesis under consideration of neurological aspects. During the clinical practical the students learn to apply their clinical knowledge and clinical skills through direct contact with patients. By active involvement of the students at the divisions and ambulances of the University Clinical Department for Neurology and



corresponding clinical departments as approved by the university they are provided with an overview of neurological diagnostic and therapeutic methodology.

5DIPLMPSYC PSYCHIATRY

Semester: 9 or 10 Weeks: 5 Lecture: 20 hrs; 1,3 ECTS credits Practical course: 40 hrs; 2,6 ECTS credits Clinical Practical: 45 hrs; 2,9 ECTS credits Total: 105 hrs; 6,7 ECTS credits Exam: written; part of SIP5a

Contents: The lecture Psychiatry imparts systemically the basic knowledge of psychiatry. The students are familiarized with knowledge about psychiatric examinations, basics on disease patterns and the aetiology and pathogenesis thereof, as well as on therapy and some special subjects of psychiatry. In seminars, students are provided with knowledge about important, specific psychiatric disease patterns. In the practical, students acquire knowledge and skills within the management of relevant psychiatric problems. The skills and knowledge imparted in the practical are essential as professional preparatory training. Psychiatric disease patterns, the contact with psychiatric patients and psychiatry therapy are introduced. Additionally, students also get to know various institutions approved by the university.

5DIPLMPED

PAEDIATRICS Semester: 9 or 10 Weeks: 5 Lecture: 30 hrs; 1,9 ECTS credits Practical course: 30 hrs; 1,9 ECTS credits Clinical Practical: 45 hrs; 2,9 ECTS credits Total: 105 hrs; 6,7 ECTS credits Exam: written; part of SIP5a

Contents: In the clinical practical students are provided with the basic clinical skills of paediatrics at divisions and ambulances of the University Clinic of Paediatrics as well as at departments approved by the university. The establishment of a paediatric anamnesis with special regard to indirect anamnesis (discussion of anamnesis with parents) and the determination of a paediatric status praesens is practised by direct patient contact. Moreover, the students are made familiar with diagnostic and therapeutical methodology by active involvement into the routine operations. In the lecture, the students learn about diagnostics and therapy of prevalent, important and exemplary disease patterns in different stages of life. The seminar discusses specific paediatric problems in small group lectures.

LINE 17 5DIPLML17 INTERDISCIPLINARY PATIENTS MANAGEMENT Semester: 9 + 10 Practical course: 60 hrs; 2,9 ECTS credits Total: 60 hrs; 2,9 ECTS credits Exam: immanent examination character



Contents: The seminar and the practical deal with typical disease patterns, complexes of symptoms, and professional issues from the fields of ethics in medicine, geriatrics, forensic medicine, hospital hygiene, palliative medicine physical medicine, psychosomatics, radiation therapy (radio-oncology) and social medicine, as well as diagnostic and therapeutic aspects.

5DIPLMGYN GYNECOLOGY & OBSTETRICS Semester: 9 or 10 Weeks: 5 Practical course: 45 hrs; 2,9 ECTS credits Clinical Practical: 60 hrs; 3,8 ECTS credits Total: 105 hrs; 6,7 ECTS credits Exam: written; part of SIP5a

Contents: In the clinical practical students are provided with the basic clinical skills of Gynaecology & Obstetrics at divisions and ambulances of the University Clinic of Gynaecology & Obstetrics as well as at clinical departments approved by the university. Gynaecologic anamnesis and the determination of gynaecologic status praesens is practised by direct patient contact. Moreover, the students are made familiar with diagnostic and therapeutical methodology by active involvement into the routine operations. In the seminar, the students learn about diagnostics and therapy of prevalent life-threatening gynaecologic disease patterns, about prenatal diagnostics and pregnancy precaution and about attending normal and anomalous birth.

OPHTAMOLOGY & OTOLARYNGOLOGY

5DIPLMOPH OPHTAMOLOGY Semester: 9 or 10 Weeks: 2,5 Lecture: 15 hrs; 1 ECTS credits Practical course: 15 hrs; 1 ECTS credits Clinical Practical: 30 hrs; 1,9 ECTS credits Total: 60 hrs; 3,8 ECTS credits Exam: written; part of SIP5a

Contents: In the seminar and the lecture the students are provided with clinical knowledge about therapeutical and diagnostic methodology in ophthalmology as well as about differential diagnosis of prevalent, exigent and exemplary ophthalmologic diseases. They also acquire the management of ophthalmologic emergency cases. In the clinical practical students learn ophthalmologic anamnesis as well as the examination of the eye by direct patient contact at divisions and ambulances of the University Clinic of Ophthalmology as well as at clinical departments approved by the university.

5DIPLMORL OTOLARYNGOLOGY Semester: 9 or 10 Weeks: 2,5 Lecture: 20 hrs; 1,3 ECTS credits Practical course: 15 hrs; 1 ECTS credits



Clinical Practical: 25 hrs; 1,6 ECTS credits Total: 60 hrs; 3,8 ECTS credits Exam: written; part of SIP5a Contents: The lecture of the Block otolar

Contents: The lecture of the Block otolaryngology discusses specific disease patterns, differential diagnoses including their patho-morphological and psychological basics, as well as their prevention and therapy. In the practical students acquire skills for the determination of an otolaryngologic status. Functional testing is practised in the seminar. The clinical practical deals with direct patient contact.

6DIPLMINTM

INTERNAL MEDICINE

Semester: 11 or 12 Weeks: 16 Clinical Practical: 19,7 ECTS credits Total: 19,7 ECTS credits

6DIPLMSURG

SURGERY AND PREOPERATIVE DISCIPLINES

Semester: 11 or 12 Weeks: 16 Clinical Practical: 19,7 ECTS credits Total: 19,7 ECTS credits

6DIPLMELEC ELECTIVE DISCIPLINE

Semester: 11 or 12 Weeks: 8 + 8 Clinical Practical: 9,85 + 9,85 ECTS credits Total: 9,85 + 9,85 ECTS credits

6DIPLML19 RETURN WEEK

Semester: 12 Practical course: 15 hrs; 1 ECTS credits Total: 15 hrs; 1 ECTS credits

CLERKSHIP

Within the framework of the medical studies, 12 weeks of clinical clerkship have to be served unless otherwise ruled by the articles of the university.

A clinical clerkship must have a minimum duration of 2 weeks. A minimum of 4 weeks have to be served at a division of Internal Medicine. 4 further weeks have to be fulfilled at an institution of Primary Care (approved practices for general medicine). For the remaining 4 weeks of obligatory clerkship the students may choose freely either 2 disciplines for 2 weeks or 1 discipline for 4 weeks, it is however strongly recommended to attend an institution of Surgery.



The clinical clerkship can only be acknowledged if served at institutions following the regulations approved by of the committee of study affairs ("structured clerkship") and if the corresponding courses are approved by the committee of study affairs.

Furthermore, the students have to write a clinical logbook, where they document chronologically on time, locality, tutor, progression, activities and acquired skills and knowledge.

Equivalence Table

Subject	Curriculum N202
Medical Psychology	Module 1
Functional Pathology	Module 5
Functional Pathologie & General Pathology	Module 8
Functional Pathologie & General Pathology, Pharmacology & Toxicology, Hygiene & Microbiology, preventive medicine	Module 9
Anatomy and Histology	Modules 10, 11, 12, 13, 14, 15, 18, 19 und 21
Internal Medicine & Surgery	Modules 10-14, 21 Line-Elements of the 2. Study Year
Internal Medicine	Module Internal Medicine
Surgery	Module Surgery
Gynecology & Obstetrics	Module 15, Line Specific Examination Techniques Module Gynecology & Obstetrics
Pediatrics	Module 16, Module Pediatrics
Ophthalmology, Otorhinolaryngology, Dermatology & Venerology	Module 18
Ophthalmology	Module Ophthalmology
Otorhinolaryngology	Module Otorhinolaryngology
Dermatology & Venerology	Module Dermatology
Neurology	Module 19, Line Neurological Status, Module Neurology
Psychiatry	Module 20, Module Psychiatry
Social Medicine & Forensic Medicine	Module 6 &22



5 THE DIPLOMA STUDIES OF DENTISTRY N203

THE VIENNA MEDICAL CURRICULUM is based on integration of non-clinical and clinical learning: in every single learning unit (Module) students will learn about structure and function, as well as the most important and most frequent diseases and therapies. In addition there are courses called "Lines" which take place throughout the semester. They establish the connection to clinical work since they focus on clinical skills.

Problem orientated learning (POL) and **Case based learning (CBL)** supplement other instructional methods.

The third stage of study (semester 7-12) emphasises intensive clinical training.

The practice-orientation is the most outstanding feature of the Viennese Medical Curriculum. The first patient contact takes place during the third semester.

In this curriculum there are different kinds of examinations:

Practical courses and seminars with immanent examination character (assessment on the basis of permanent written or oral contributions within the framework of the course). Another form of seminar is **team-based learning**.

FIPs (FORMATIVE INTEGRATED EXAMS) at the end of semester one: this multiple choice exam gives feedback to the students about their learning performance.

SIPs (SUMMATIVE INTEGRATED EXAMS) at the end of each academic year: here the course content of the whole academic year is examined with multiple choice questions. This exam must be passed to receive ECTS credits for the course work of the preceding academic year.

For exchange students who only come for the winter term special arrangements will be made for an appropriate examination.

The duration of the diploma studies of dentistry is 12 semesters:

The first stage of study covers 2 semesters.

The **second stage of study** covers 4 semesters.

The third stage of study covers 6 semesters.

As a graduation requirement students are required to write a diploma thesis. The modules 7, 17 focus on scientific training and enable students to perform the research for their thesis.

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Module 1 Health and Diseases (3)			Module 7 (SSM 1) Science & Medicine (3)			Module Z.1 Masticatory Organs & Musculoskeletal System	Practical: Histologic Pathology Practical: Ergonomics & Trainin			Dental Radiology Per	Practical & Seminar: Radiology, Radio Protection & Diagnostics		Assistances during the Dental Clinical Practical Extractions Extractions Extractions					





I. Stage of Study (2 terms)									
Semester 1 (Winter Term)									
Module	Code / Year		ECTS-Cre	CTS-Credits					
		Lecture	Total						
			Seminar						
Health and Diseases	1DIPLM M1	4,7	1,6	6,3					
The Human Body	1DIPLM M2	10,0	1,6	11,6					
From Molecule to Cell	1DIPLM M3	9,0	2,5	11,5					
Social Skills	1DIPLM L1		2,6	2,6					
First Aid	1DIPLML2		1,1	1,1					
Problem oriented learning (POL)	1DIPLM POL		1,1	1,1					
Semester 2 (Summer Term)									
Functional Systems and Biological Regulation	1DIPLM M4	6,5	3,3	9,8					
Genetics, Molecular & Cellular Communication	1DIPLM M5	4,0	1,7	5,7					
Dental Propedeutics I	1DENTMPRP1	7		7					
Health Assessment	1DIPLM L3		1,1	1,1					
Oral Hygiene	1DIPLM L10		1,1	1,1					
Manual Skills	1DIPLM L11		1,1	1,1					
per anno				60					
II. 9	Stage of Study (4 terms)								
Semester 3 (Winter Term)									
Science & Medicine (SSM I)	2DIPLM M7	1.4	4.1	5.5					
Disease, Origin & Symptoms	2DIPLM M8	8	3	11					
Disease, Manifestation & Perception & General	2DIPLM M9	6,2	4,9	11,1					
Pharmacotherapy			·						
Medical Interview A	2DIPLM L4A		1,0	1,0					
Basic Medical Skills	2DIPLML5		1,0	1,0					
Problem oriented learning (POL)	2DIPLM POL		2,1	2,1					
Semester 4 (Summer Term)									
Endocrinology and Metabolism	2DIPLM M10	3,5	0,7	4,2					
Cardiovascular System and Blood	2DIPLM M11	5,3	2,9	8,2					
Respiratory System	2DIPLM M12	3,3	1,1	4,4					
Initial Dental Examination	2DIPLM L6		1,0	1,0					
Practical Revision Course	2DIPLM L7		1,0	1,0					
Dental Organmorphology	2DIPLM L8A		4,4	4,4					
Case Based Learning (CBL)	2DIPLMCBL		2,1	2,1					
Optional Subjects	2DIPLM 0PT4		2,0	3,0					
per anno				63,9					
Semester 5 (Winter Term)									
Module	Code / Year		ECTS-Cre	dits					
		Lecture	Practical/ Seminar	Total					
Masticatory Organs & Musculoskeletal System	3DENTM Z1	4,7	1,1	5,8					
Oral Pathology & Internal Organs	3DENTM Z2	4,4	1,6	6					
Brain, Sensory Organs & Pain	3DENTM Z3	4,9	0,4	5,3					
Materials Science	3DENTM MSC	2,2	1,6	3,8					
Handicapped Persons I	3DENTM L8B		0,5	0,5					
Optional Subjects	3DIPLMOPT5			9					
Semester 6 (Summer Term)									
Methodology of Medical Science - SSM2	3DENTMSSM2	1	4,1	5,1					
Dental Propedeutics II	3DENTMPRP2	9.4	,	9.4					
Occlusion I	3DENTM OC1	,	4.9	4.9					
Occlusion II	3DENTM OC2		0,9	0,9					
Anatomy of the Head-Neck-Region and Exodontia	3DENTM HNR		6,4	6,4					
per anno		•		57.1					



III. Stage of Study (6 Semesters)											
Semester 7 (Winter Term)											
Module	Code / Year										
		Lecture	Practical/	Total							
			Seminar								
Dental Radiology, Radio Protection & Diagnostics											
Seminar	4DENTMRDSE	2,8	2,2	5							
Cariology & Dental Filling Therapy	4DENTM Z4	1,7	5,1	6,8							
Periodontology & Prophylaxis	4DENTM Z5	1,8	4,6	6,4							
Conservative Dentistry , Fixed Prosthodontics	4DENTM Z6	2,1	6,2	8,3							
Pediatric Dentistry	4DENTMPedDent	1,1	0,8	1,9							
Handicapped Persons II	4DENTM L8C		0,4	0,4							
Semester 8 (Summer Term)											
PRACTICAL: PROSTHODONTIC FUNDAMENTALS,											
REMOVABLE PROSTHODONTICS	4DENTM Z7	2,8	6,8	9,6							
Oral Surgery	4DENTM Z8	3	6,8	9,8							
Orthodontics	4DENTM Z9	2,7	4,4	7,1							
Thesis Seminar A	4DENTM THSA			6							
per anno	-	<u> </u>		61,3							
Ser	nester 9 (Winter Term)										
Module	Code / Year	ECTS-Credits									
		Lecture	Practical/	Total							
			Seminar								
Emergency Medicine	5DENTM EM	0,4	1,1	1,5							
Dental Clinical Practical I (18 weeks)	5DENTMDCP1		1,3/week	24							
Assistances during the Dental Clinical Practical	5DENTM L9		7,3	7,3							
Dental Extractions on Patients.	5DENTM DEP		0,3	0,3							
Semo	ester 10 (Summer Term)										
Dental Clinical Practical II(18 weeks)	5DENTMDCP2		1,3/week	24							
Thesis Seminar B	5DENTM THSB			6							
per anno				63,1							
Semester 11 (Winter Term)											
Dental Clinical Practical III (18 weeks)	6DENTM DCP3		1,3/week	24							
Thesis Seminar C	6DENTM THSC			3							
Seme	ester 12 (Summer Term)										
Emergency Medicine Refresher	6DENTM EMR		1,1	1,1							
Maxillo-facial Surgery	6DENTM MFS		5,6	5,6							
Dental Clinical Practical IV (18 weeks)	6DENTM DCP4		1,3/week	24							
Legal, Ethic & Economic Fundamentals	6DENTM LEEF	DENTM LEEF 3,2									
Thesis Seminar D	6DENTM THSB			3							
per anno				63,9							



5.1 The First Stage of Study

MODULE 1 1DIPLMM1 HEALTH AND DISEASES

Semester: 1 Lecture: 49 hrs; 4,7 ECTS credits Practical course: 17 hrs; 1,6 ECTS credits Total: 66 hrs; 6,3 ECTS credits Exam: written; part of SIP1

Contents: The lectures and the small group classes introduce students to main focus topics of the medical studies as a first orientation. Topics of general relevance (such as gender specific issues, medical ethics, medical law, proper conduct with patients, etc.) are deepened and rendered more practice-related in instructed classes. Furthermore, students are prepared for the main topics of the modules of the first study year.

MODULE 2 1DIPLMM2 THE HUMAN BODY

Semester: 1 Lecture: 104 hrs; 10 ECTS credits Practical course: 16 hrs; 1,6 ECTS credits Total: 120 hrs; 11,6 ECTS credits Exam: written; part of SIP1

Contents: The course focuses on morphology and physiology of all organ systems of both genders, especially on the musculoskeletal system, circulatory system, respiratory system, digestive system, urogenital system, endocrine and nervous systems (lecture + practical).

MODULE 3 1DIPLMM3 FROM MOLECULE TO CELL Semester: 1

Lecture: 94 hrs; 9,0 ECTS credits Practical course: 26 hrs; 2,5 ECTS credits Total: 120 hrs; 11,5 ECTS credits;

Exam: written; part of SIP1

Contents: After a presentation of physical-chemical principles essential for a general understanding of modern cell biology, the course deals with organization of pro- and eukaryotes, cellular compartments, cell organelles, metabolism, energy production, transport, homeostasis, signal transduction, cell dynamics, information, organization of the nucleolus, cell division, cell death.

This basic knowledge is supported by clinical studies for a general understanding of normal cell behaviour as well as pathomechanisms.

The practical provides an introduction to expert methodology and laboratory work. In the seminar the fundamental concepts are discussed and applied through examples.

LINE 1 1DIPLML1 SOCIAL SKILLS Semester: 1

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Practical course: 30 hrs; 2,6 ECTS credits Total: 30 hrs; 2,6 ECTS credits

exam: immanent examination character

Contents: The line element consists of an introductory seminar, a practical course and a tutorial. The seminar covers the theoretical aspects of the topic whereas during the practical students make direct contact with patients in need of care. Additionally, the observations are reflected and discussed in the weekly tutorial. The goal is to sensitize the student for adequate communication, empathy and appreciation during the treatment of patients as well as for professional behaviour in the interdisciplinary team. Furthermore, the aim is to encourage critical reflexion as well as the awareness of gender specific, social and cultural issues influencing health and disease.

LINE 2A 1DIPLML2A FIRST AID Semester: 1 Practical course: 15 hrs; 1,1 ECTS credits Total: 15 hrs; 1,1 ECTS credits exam: immanent examination character

Contents: Goal of the practical is to practice the required skills to give efficient and proper First Aid (on a manikin) according to general guidelines.

LINE POL 1DIPLMPOL PROBLEM-ORIENTED LEARNING

Semester: 1

Practical course: 15 hrs; 1,1 ECTS credits

Exam: immanent examination character

Contents: Goal of the seminar is to impart basic problem-oriented learning (POL) and illustrate the principles of this teaching method by means of practical examples.

MODULE 4 1DIPLMM4

FUNCTIONAL SYSTEMS AND BIOLOGICAL REGULATION

Semester: 2 Lecture: 68 hrs; 6,5 ECTS credits Practical course: 34 hrs; 3,3 ECTS credits Total: 102 hrs; 9,8 ECTS credits

Exam: written; part of SIP1

Contents: The lecture gives an overview of the functions of the somatic and vegetative nervous system, the inner organs, and the physiologic and biochemical aspects of metabolism with regard to the endocrine regulation. In the practical, the students learn examination methods of basic body systems (respiration, circulatory system, muscular functions, equilibrium, neuronal regulation) as well as basic blood work analysis.

MODULE 5 1DIPLMM5 GENETICS, MOLECULAR & CELLULAR COMMUNICATION Semester: 2 Lecture: 42 hrs; 4,0 ECTS credits Practical course: 18 hrs; 1,7 ECTS credits



Total: 60 hrs; 5,7 ECTS credits Exam: written; part of SIP1

Contents: In the lecture, the seminar and the practical the organization of the Human Genome, including principles of inheritance, genetic expression, and the cell cycle are discussed. Furthermore, students are taught the basics of genetic technology, as well as its application in diagnostics and therapy. Additionally, medical ethical aspects of gene technology are discussed. Lastly, molecular aspects of morphogenesis are introduced.

DENTAL PROPEDEUTICS I

1DENTMPRP1

Semester: 3 Lecture: 62 hrs; 7 ECTS credits; Exam: written

Contents: The lecture Dental Propedeutics I imparts specific knowledge in dental medicine concerning oral anatomy and histology, basics of oral pathology, oral microbiology and hygiene as well as dental terminology.

LINE 10 1DIPLML10 ORAL HYGIENE Semester: 2 Practical course: 15 hrs; 1,1 ECTS credits

This line element provides an overview about different oral hygiene products, their application area and how to give instructions to the patients regarding domestic oral hygiene. The course is held in theoretical and practical units.

LINE 11 1DIPLML11 MANUAL SKILLS Semester: 2 Practical course: 15 hrs; 1,1 ECTS credits This line's goal is to acquire and deepen the manual skills by the construction of predetermined threedimensional corpuses (cones, cylinders etc.).

LINE 3 1DIPLML3 HEALTH ASSESSMENT Semester: 2 Practical course: 15 hrs; 1,1 ECTS credits Exam: immanent examination character Contents: The students practice physical exa

Contents: The students practice physical examination techniques on the healthy human as well as basic techniques of infection control and hygiene.



5.2 The Second Stage of Study

MODULE 7 2DIPLMM7 SPECIFIC STUDY MODULE 1 (SSM1): SCIENCE & MEDICINE Semester: 3

Lecture: 15 hrs; 1,4 ECTS credits

Practical course: 45 hrs; 4,1 ECTS credits

Total: 60 hrs; 5,5 ECTS credits

Exam: written and immanent examination character

Contents: The lecture deals with the basics of medical science (structure, research methods) followed by an introduction to Evidence Based Medicine. The practical imparts medical information research (literary research in particular) as well as an introduction to computer based learning. The compulsory optional part provides a first insight into scientific work: the student has to research literature, compile an annotated bibliography and compose as well as present an abstract on a concrete topic.

MODULE 8 2DIPLMM8 DISEASE, ORIGIN & SYMPTOMS

Semester: 3

Lecture: 87 hrs; 8 ECTS credits Practical course: 33 hrs; 3,0 ECTS credits Total: 120 hrs; 11 ECTS credits;

Exam: written; part of SIP2

Contents: The basics of patho-morphological response forms (necrosis, inflammation, tumour), general infectiology, mechanisms of unspecific and specific (immunologic) defence, genetic and gender specific factors of pathogenesis, causes and mechanisms of canceration, patho-genetic mechanisms within the formation of vascular-, clotting- and degenerative diseases, neurobiological basics as well as psychosocial factors of pathogenesis are discussed in the lecture. Practicals and seminars illustrate the contents of the abovementioned topics and allow insight into the methods and significance of applied diagnostic techniques. The patho-physiological principles of the development of clinical disease patterns are illustrated by means of prevalent or important examples.

MODULE 9 2DIPLMM9

MANIFESTATION AND PERCEPTION OF DISEASES, GENERAL PHARMACO-THERAPY Semester: 3 Lecture: 67 hrs; 6,2 ECTS Practical course: 53 hrs; 4,9 ECTS credits

Total: 120 hrs; 11,1 ECTS credits

Exam: written; part of SIP2

Contents: Within the scope of a lecture and a seminar the somatic, mental, as well as gender specific causes and appearances of diseases are illustrated on the basis of prevalent, significant and exemplary patterns of disease. Furthermore, the principles of general pharmacotherapy are introduced. Other contents are prevention, diagnostics, and therapy of micro-biologic diseases.



LINE 4A 2DIPLML4A MEDICAL INTERVIEW A Semester: 3 Practical course: 15 hrs; 1,0 ECTS credits Exam: immanent examination character

Contents: In this practical the student gets to know and practise the underlying general, medical, biographic, familiar, psycho-social and gender specific aspects of medical interviews in instructed small group classes. Students practice the first medical interview with a patient. The principles of competent communication with patients about diagnostic and therapeutical steps are acquired.

LINE 5 2DIPLML5

BASIC MEDICAL SKILLS

Semester: 3

Practical course: 15 hrs; 1,0 ECTS credits

Exam: immanent examination character

Contents: The goal of the practical course is the standardised impartation of a clinical basic competence in medical skills (eg. taking blood samples, inserting a urinary catheter, etc.), as well as in hygienic behaviour and skills (hand hygiene, non-touch-technique etc.). The contents are taught and practised in small group lectures by means of simulation models.

LINE POL 2DIPLMPOL

PROBLEM-ORIENTED LEARNING

Semester: 3

Practical course: 30 hrs; 2,1 ECTS credits Exam: immanent examination character **Contents**: Goal of the seminar is to impart basic problem-oriented learning (POL) and illustrate the principles of this teaching method by means of practical examples.

MODULE 10 2DIPLMM10 ENDOCRINOLOGY AND METABOLISM

Semester: 4

Lecture: 38 hrs; 3,5 ECTS credits Practical course: 8 hrs; 0,7 ECTS credits Total: 46 hrs; 4,2 ECTS credits Exam: written; part of SIP2 Contents: The lecture introduces anatom

Contents: The lecture introduces anatomic, histological, physiologic and biochemical basics followed by the discussion of prevalent diseases of the endocrine organs, disorders of the carbohydrate-, protein- and lipid metabolism as well as diagnostic and therapeutic measures. The contents of the lecture are discussed in more detail in the seminar.

MODULE 11 2DIPLMM11 CARDIOVASCULAR SYSTEM AND BLOOD Semester: 4

Lecture: 58 hrs; 5,3 ECTS credits Practical course: 32 hrs; 2,9 ECTS credits Total: 90 hrs; 8,2 ECTS credits Exam: written; part of SIP2



Contents: In the first part of the lecture the student is provided with basic knowledge about constitution, function and development of the cardiovascular as well as the haematopoietic system in connection with clinical problems and with regard to gender specific aspects. The second part introduces cardiovascular and blood diseases in synopsis of pathology and clinic, diagnostics, therapy, prevention and rehabilitation. The practical consists of medical-chemical and physical exercises as well as an ECG course. The seminar deals with pharmacology and pharmacotherapy of the cardiovascular and blood diseases.

MODULE 12 2DIPLMM12 RESPIRATORY SYSTEM Semester: 4

Lecture: 36 hrs; 3,3 ECTS credits Practical course: 12 hrs; 1,1 ECTS credits Total: 48 hrs; 4,4 ECTS credits Exam: written; part of SIP2

Contents: The goal of the lecture is the consolidation of physiological and patho-physiological basics of the respiratory tract considering gender specific aspects as well as the impartation of the most prevalent diseases of the upper and the lower respiratory tracts, the pathogenesis thereof (including psychosomatic causes), diagnostic and therapeutic possibilities.

The interdisciplinary lecture also includes physiology, anatomy, physics, histology, pneumology, anaesthology, cardio-thoracic surgery, radiology and paediatrics. In the seminar and the practical students develop relevant disease patterns of the respiratory tract in an interdisciplinary way.

LINE 6 2DIPLML6 DENTAL EXAMINATION TECHNIQUES Semester: 4

Practical course: 15 hrs; 1,0 ECTS credits

Exam: immanent examination character

Contents: The goal of the practical is the acquisition of the physical examination of women and men by role-play as well as of teleradiography for the determination of facial types. Also the topic of basic hygienic behaviour is raised.

LINE 7 2DIPLML7

PRACTICAL REVISION COURSE

Semester: 4

Practical course: 15 hrs; 1,0 ECTS credits

Exam: immanent examination character

Total: 7 hrs; 0,5 ECTS credits

Contents: Goal of the practical is the consolidation of the contents of the line elements of semester 3 and 4 (Basic Medical Skills, Medical Interview I + II, Detal Examination Techniques) as well as the examination of the acquired skills.

LINE 8A 2DIPLML8A DENTAL ORGAN MORPHOLOGY Semester: 4 Practical course: 54 hrs; 4,4 ECTS credits



Total: 54 hrs; 4,4 ECTS credits Exam: immanent examination character

Contents: The range of module-overlapping lectures with immanent examination character aims at the establishment of a connection to the interpretation of anatomic conditions in a clinical-diagnostic context by means of practical dissection on a body in integration with diagnostic imaging techniques as well as at an understanding of clinically relevant topographic relations to the execution of surgical interventions. After an introductory stage reference is made to the most prevalent elements of all organ systems during the dissection process with a special regard to dental students.

LINE CBL 2DIPLMCBL CASE-BASED LEARNING Semester: 4

Practical course: 30 hrs; 2,1 ECTS credits

Contents: Goal of the course is the qualification of students to record and successfully treat clinical case histories. Contents are oriented on the modules held parallel to the respective CBL. Imparted knowledge is thereby deepened with the help of practical case studies. Students get to practice the making of a diagnosis as well as the principles of therapies. The course is held interactively under the instruction of clinicians from the respective clinical field. Students are introduced into clinical thinking and work. Gender-specific aspects are considered for the selection of case studies.

MODULE Z-1 3DENTMZ1 MASTICATORY ORGANS & MUSCULOSKELETAL SYSTEM

Semester: 5 Lecture: 88 hrs; 4,7 ECTS credits Practical course: 14 hrs; 1,1 ECTS credits Total: 102 hrs; 5,8 ECTS credits

Exam: written; part of Z-SIP3

Contents: The specific, normal, and pathological processes of the musculoskeletal system are discussed with regard to the biochemical, anatomic and physiological principles. Emphasis is placed on deepening the knowledge about the biological behaviour of cartilage and osseous tissue, turnover and atrophy, prostheses and pathology of bone tissue, as well as the knowledge ranging from oral and maxillofacial development to normal dental histology.

- The clinical relation relevant for dentistry is established by lectures on general bone surgery, traumatology, and septic surgery as well as conservative and surgical therapy of Temporomandibular Joint Diseases. Important differential diagnoses of specific rheumatological diseases are also taught. Furthermore, the students acquire the principles of pathological strain reactions relevant for their medical profession as dentists.

- The module is complemented by a practical course in histopathology of the most important bone and joint diseases as well as in ergonomics and training.

MODULE Z-2 3DENTMZ2 ORAL PATHOLOGY & INTERNAL ORGANS Semester: 5 Lecture: 82 hrs; 4,4 ECTS credits Practical course: 20 hrs; 1,6 ECTS credits Total: 102 hrs; 6 ECTS credits



Exam: written; part of Z-SIP3

Contents: The lecture deals with the anatomy, histology, physiology and pathology of the digestive tract with regard to disorders and diseases of the oropharyngeal, oesophageal, gastro-intestinal, hepatic and pancreatic spheres. Reasons for, consequences and therapy of nutritional disturbances are also discussed. Emphasis is placed on topics relevant for dentistry such as the salivary glands, oral mucosa and oral pathology.

- in one chapter of the lecture, the student learns about development, anatomy, function and prevalent diseases of the kidney and the urinary tract collection system as well as about the role of the kidney in water-electrolyte and acid-base imbalances. Furthermore, the consequences of renal function disorders on the metabolism in the total organism are presented.

- another chapter introduces the anatomic, embryologic, histological, physiological and biochemical basics of reproduction relevant for dentistry. The emphasis is placed on sexuality, ethics, psychosocial and forensic issues. Moreover, chapters about gynaecology and urology with relevance for dentistry are discussed.

- the interdisciplinary module also imparts the required knowledge about the hormonal balance, vitamins and the immune system.

The module is complemented by a practical in Otorhinolaryngology and a practical in Oral.

MODULE Z-3 3DENTMZ3 BRAIN, SENSORY ORGANS & PAIN Semester: 5

Lecture: 92 hrs; 4,9 ECTS credits Practical course: 4 hrs; 0,4 ECTS credits Total: 96 hrs; 5,3 ECTS credits Exam: written; part of Z-SIP3

Contents: In the lectures on the nervous system the student acquires neurone specific aspects relevant for dentistry as well as an overview about the sensory organs of the head-neck region in consideration of relevant dental clinical pictures. The lectures especially deal with the basics of neuroanatomy and neurophysiology and the resulting emphasis on the topic of "stress". Further emphasis of the module is laid on the topic of pain, its emergence and treatment. The students shall complement their basic skills by means of an introduction to neurological symptoms and syndromes together with an overview about the basics of psychiatry and the most important psychiatric clinical pictures. Additionally, the lectures deal with aspects of the emergence of fear and its treatment. Sensory physiological and clinically relevant symptoms and syndromes in ophthalmology are also described. Moreover the fundamentals of anaesthesia are taught from a pharmacological and practical clinical point of view.

A practical which includes a practical demonstration of lecture topics relevant for dentistry from the field of psychiatry as well as pain from an anaesthetic point of view complements the module;. Furthermore, the practical discusses practice-related aspects of fear and pain as well as the basics of hypnosis and gives an insight into specific examination techniques.

MATERIALS SCIENCE

3DENTMMSC

Semester: 5 Lecture: 40 hr; 2,2 ECTS credits Practical course: 20 hrs; 1,6 ECTS credits Total: 60 hrs; 3,8 ECTS credits



Contents: The lecture discusses the basics of material characteristics of dental material, physical and chemical basics and clinical knowledge of direct filling materials, of impression materials/model and die materials in endodontics, of metal in dentistry and synthetic materials in prosthodontics as well as waxing and prophylaxis materials. Furthermore, the physical and chemical basics as well as the clinical knowledge on dental ceramics, implants in dentistry and basics of CAD/CAM technology are presented. The course also teaches the biocompability of dental materials. The lecture is complemented by a practical course which refers to the employment of dental materials.

HANDICAPPED PERSONS I 3DENTML8A

Semester: 5 Practical course: 7 hrs; 0,5 ECTS credits Total: 7 hrs; 0,5 ECTS credits Contents: This Line-element serves to learn and to convey dental and oral hygiene in consideration of physically or mentally handycapped persons.

METHODOLOGY OF MEDICAL SCIENCE - SSM2 3DENTMSSM2

Semester: 6 Lecture: 12 hrs: 1 ECTS credits

Practical course: 50 hrs; 4,1 ECTS credits

Total: 62 hrs; 5,1 ECTS credits

Exam: written

Contents: Consists of a compulsory and an optional part. The compulsory part comprises a lecture and a seminar which impart the statistical basics for the planning of scientific studies and the evaluation of projects, the role of random fluctuation, measuring errors and biological variability also being considered. International applicable standards in this domain are also addressed with the help of examples. During the small group courses (practical and seminar) of the optional part the student gets to know individual techniques of scientific work (laboratory, socio-scientific/psychological measuring methods). The application of the techniques focuses on a certain medical problem also considering methods of quality inspection and insurance.

DENTAL PROPEDEUTICS II 3DENTMPRP2

Semester: 6

Lecture: 175 hrs; 9,4 ECTS credits

Practical course Occlusion I: 61 hrs; 4,9 ECTS credits

Practical course Occlusion II: 10 hrs; 0,9 ECTS credits

Practical course Head-Neck-Region-Region & Exodontia: 74 hrs; 6,4 ECTS credits

Total: 320 hrs; 21,6 ECTS credits

Exam: written

Contents: The Dental Propedeutics II as the last courses of the second stage of study consists of the lecture and the practical course Occlusion I and II and the clinical-anatomic practical "Head-Neck-Region & Exodontia", The course aims at providing the students with the most practice-related preparation possible for the clinical third stage of study.

- The theoretical part repeats and deepens the contents on the osseous anatomy of the head/neck region, the cerebral nerves as well as their protrusion and the masticatory organs and establishes the relationship to the aspects of dental practice.



The course also includes the topic of general dental examination techniques as well as the pharmacological, anatomic and clinical aspects of dental local anaesthetics. Students are provided with principle radiological skills as a basic preparation for the acquisition of the contents of the 4th study year.

- The practical "Occlusion" provides the possibility to acquire, practice and examine technical skills and imagination. Emphasis is placed on the morphology of teeth and dental arches as well as their dynamic relations. This is achieved by carving and scaling of a single tooth and of tooth groups.

- The clinical-anatomic practical "Head-Neck-Region & Exodontia" is based on the theoretical knowledge of Propedeutics II and imparts systemic and topographical knowledge in anatomy considering multidisciplinary and clinical aspects of the head-neck-region. In addition, this practical course focuses on skills relevant for dentistry as well as their practice (e.g. local anaesthetics) under the supervision of dentists.

5.3 The Third Stage of Study

DENTAL RADIOLOGY, RADIO PROTECTION & DIAGNOSTICS SEMINAR 4DENTMRD Semester: 7

Lecture: 52 hrs; 2,8 ECTS credits Practical course: 31 hrs; 2,2 ECTS credits Exam: written Total: 83 hrs; 5,0 ECTS credits

Contents: This lecture includes the basic education of the radiation protection technician, basic principles of dental radiologic diagnostics as well as special training in the diagnostic application of X-rays, especially miniature radiograph diagnostics.

MODULE Z-5 4DENTMZ5 PERIODONTOLOGY & PROPHYLAXIS

Semester: 7

Lecture: 38 hrs; 1,8 ECTS credits

Practical course: 67 hrs; 4,6 ECTS credits

Total: 105 hrs; 6,4 ECTS credits

Exam: written; part of Z-SIP4

Contents: The lecture and practical course Periodontology imparts theoretical and practical knowledge on conservative periodontology and prophylaxis, dental aspects of microbiology and hygiene as well as on interfaces to other dental disciplines.

The students shall acquire the learning aims not only in a theoretical way through lectures, but also by means of extensive exercises during the practicals.

MODULE Z-4 4DENTMZ4 CARIOLOGY & DENTAL FILLING THERAPY Semester: 7 Lecture: 35 hrs; 1,7 ECTS credits



Practical course: 73 hrs; 5,1 ECTS credits Total: 108 hrs; 6,8 ECTS credits Exam: written; part of Z-SIP3

Contents: Theoretical basics of Conservative Dentistry. Material sciences, endodontics, and laser in dentistry. The students shall get to know the rules and criteria of preparation, practice filling and restoration techniques; perform endodontic interventions on a mannequin and receive preparation for performance on a patient. Important aspects from a paradontological point of view will also be mentioned (e.g. Perio-Endo-Lesions).

MODULE Z-6 4DENTMZ6 CONSERVATIVE DENTISTRY, FIXED PROSTHODONTICS Semester: 7

Lecture: 43 hrs; 2,1 ECTS credits Practical course: 85 hrs; 6,2 ECTS credits Total: 128 hrs; 8,3 ECTS credits

Exam: written; part of Z-SIP4

Contents: The module consists of two chapters, single-tooth restoration and complex restorations.

The goal of the module is the acquisition of theoretical knowledge and practical skills for the making of high-quality dental treatments on a single tooth.

Students shall get to know the "classic" preparation of crowns and inlays as well as modern materials and techniques in the area of cosmetic dentistry. Therefore full ceramic restorations will be mentioned such as the required adhesive techniques.

Students acquire and practice the processes required for prosthetic diagnostics and therapy, among them plastic impressions, model production, check-bites techniques, articulator mounting and control. Students practice simple methods of pretherapy for the prosthetic treatment such as the construction of a simple splint in the articulator and the control thereof in the mouth.

The individual steps are instantly evaluated regarding their quality and the evaluation is communicated to the students directly. With most working steps, students have the chance for another performance.

Furthermore, the practical focuses on the acquisition and the practising of the skills required for prosthetic treatments. Wide-span crown preparations are practiced on a mannequin; importance is thereby attached to retention, to functional design, to aesthetic design, to practicing of a sufficient groove preparation as well as to finishing.

The practical also discusses important interdisciplinary aspects of oral & maxillofacial surgery as well as special operations such as preprosthetic orthodontics and surgical crown extensions.

PEDIATRIC DENTISTRY 4DENTMPedDent

Semester: 7 Lecture: 16 hr; 1,1 ECTS credits Practical course: 12 hrs; 0,8 ECTS credits Total: 28 hrs; 1,9 ECTS credits

HANDICAPPED PERSONS II 4DENTML8C

Semester: 7 Practical course: 5 hrs; 0,4 ECTS credits Total: 5 hrs; 0,4 ECTS credits



Contents: This Line-element serves to learn and to convey dental and oral hygiene in consideration of physically or mentally handycapped persons.

MODULE Z-7 4DENTMZ7

PRACTICAL: PROSTHODONTIC FUNDAMENTALS, REMOVABLE PROSTHODONTICS Semester: 8

Lecture: 54 hrs; 2,8 ECTS credits Practical course: 104 hrs; 6,8 ECTS credits Total: 158 hrs; 9,6 ECTS credits Exam: written; part of Z-SIP5

Contents:

The goal of the module is the acquisition of theoretical knowledge and practical skills for the making of high-quality dental treatments on a single tooth.

Students shall get to know the "classic" preparation of crowns and inlays as well as modern materials and techniques in the area of cosmetic dentistry. Therefore full ceramic restorations will be mentioned such as the required adhesive techniques

Students acquire and practice the processes required for prosthetic diagnostics and therapy, among them plastic impressions, model production, check-bites techniques, articulator mounting and control, as well as the determination of the occlusion status. Students practice simple methods of pretherapy for the prosthetic treatment such as the construction of a simple splint in the articulator and the control thereof in the mouth.

This module imparts the contents on detachable prosthetics theoretically as well as practically.

The practical also discusses important interdisciplinary aspects of oral & maxillofacial surgery as well as special operations such as preprosthetic orthodontics and surgical crown extensions.

MODULE Z-8 4DENTMZ8 ORAL SURGERY Semester: 8 Lecture: 58 hrs; 3 ECTS credits Practical course: 83 hrs; 6,8 ECTS credits Total: 141 hrs; 9,8 ECTS credits Exam: written; part of Z-SIP5

Contents: The Surgery courses in Oral Surgery (lecture and practical), maxillo-facial Surgery (lecture) and periodontal surgery (lecture and practical) cover the surgical spectrum with an emphasis on preprosthetic surgery, dysgnathia surgery, inflammation and dental implants as well as on traumatology, on therapy schemes for the treatment of carcinoma and tumours as well as on periosurgical treatments. Moreover, the high risk dental patient will receive special attention. Based on the contents of exodontia covered in the practical course "Head-Neck-Region-Region & Exodontia" of "DENTAL PROPEDEUTICS II" students get to practice dental extractions on patients.

MODULE Z-9 ORTHODONTICS Semester: 8 Lecture: 51 hrs; 2,7 ECTS credits Practical course: 64 hrs; 4,4 ECTS credits



Total: 115 hrs; 7,1 ECTS credits Exam: written; part of Z-SIP5

Contents: The goal of the maxillofacial surgical training is to impart the basics of maxillofacial surgery, theoretical knowledge about the fundamental terms of detachable and fixed maxillofacial surgery as well as introduce the materials and devices in use. Cranial growth is discussed in more depth.

Clinical diagnostics including anamnesis and assessment provide the basic knowledge for the understanding of maxillofacial orthopaedic therapy schemes.

Furthermore, the student acquires the analysis of the orthopantograph and of the far x-ray in detail. The lecture discusses the treatment with removable appliances in depth, as well as the basic principles of treatment with orthodontic braces.

During this module great importance is attached to the presentation of the interaction of paradontology, prosthetics, oral surgery and oral and maxillofacial surgery.

SEMESTER 9

EMERGENCY MEDICINE 4DENTMEMM

Semester: 9

Lecture: 8 hrs; 0,4 ECTS credits Practical course: 16 hrs; 1,1 ECTS credits Exam: written and immanent Examination character Total: 24 hrs; 1,5 ECTS credits

Contents: The goal of the course including practical course is to impart knowledge and skills for the management of the most important cases of emergency which may occur in dental practice with a special emphasis on the practical appliance of diagnostic and therapeutic possibilities for the treatment of acute diseases. Furthermore, organisational (emergency medical services, documentation, admission to hospital and intensive care unit) and ethical problems of acute medicine are discussed. In the practical course, students play through different emergency cases (unconsciousness, breathing arrest, cardiac arrest, anaphylaxis, etc.) on a phantom.

DENTAL EXTRACTIONS ON PATIENTS 5DENTMDEP

Semester: 9

Practical course: 5 hrs; 0,3 ECTS credits **Exam**: Immanent Examination character

Total: 5 hrs; 0,3 ECTS credits

Contents: Referring to the knowledge of exodontia gained in the practical course of "Head-Neck-Region-Region & Exodontia" dental extractions on patients are demonstrated and practiced.

LINE 9 5DENTML9

ASSISTANCES DURING THE DENTAL CLINICAL PRACTICAL

Semester: 9

Practical course: 108 hrs; 7,3 ECTS credits

Exam: immanent Examination character

Contents: Students are continually prepared for independent treatment of patients by the involvement in the treatment of patients at the departments of Bernhard Gottlieb Universitätszahnklinik and are intensively made familiar with treatment methods, strategies and planning. The practical is not



restricted to the period of the respective semester but can be completed during the whole calendar year, however close to the beginning of the 72-weeks-practical (according to availability).

5DENTMDCP1 practical courses: (18 weeks); 1,3 ECTS credits/week Total: 24 ECTS credits; Exam: immanent Examination character

SEMESTER 10 5DENTMDCP2

practical courses: (18 weeks); 1,3 ECTS credits/week Total: 24 ECTS credits; Exam: immanent Examination character

SEMESTER 11 6DENTMDCP3 practical courses: (18 weeks); 1,3 ECTS credits/week Total: 24 ECTS credits; Exam: immanent Examination character

SEMESTER 12 6DENTMDCP4 practical courses: (18 weeks); 1,3 ECTS credits/week Total: 24 ECTS credits; Exam: immanent Examination character

THESIS SEMINAR

Courses which enable students to independently acquire learning aims under the guidance of university professors (guided self-study).

THESIS SEMINAR A 4DENTMSSTA Semester: 8 Total: 6 ECTS credits

THESIS SEMINAR B 5DENTMSSTB Semester: 10 Total: 6 ECTS credits

THESIS SEMINAR C 6DENTMSSTC Semester: 11 Total: 3 ECTS credits

THESIS SEMINAR D 6DENTMSSTD Semester: 12 Total: 3 ECTS credits



PRACTICAL: MAXILLO-FACIAL SURGERY Semester: 12

6DENTMPR MFS

practical course: 81 hrs; 5,6 Credits Exam: immanent Examination character

Contents: The Practical course of Maxillo-Facial Surgery imparts basic knowledge in maxillo-facial surgery with an emphasis on the routine operations of inpatient treatment for instance taking of blood samples and parenteral therapy.

LEGAL, ETHIC & ECONOMIC FUNDAMENTALS 5DENTMLEEF

Semester: 12

Lecture: 60 hrs; 3,2 ECTS credits

Exam: written

Contents: The lecture introduces the most essential principles of medical law and social security law. Furthermore, the topics social medicine, employment law and occupational medicine as well as gender-specific aspects are addressed.

EMERGENCY MEDICINE REFRESHER 6DENTMEMR

Semester: 12

practical courses: 16 hrs; 1,1 ECTS credits

Exam: immanent Examination character

Contents: The Emergency Medicine Refresher provides students with a repetition of emergencies in dental practice before receiving their degree.

The goal of the course including practical course is to impart knowledge and skills for the management of the most important cases of emergency which may occur in dental practice with a special emphasis on the practical appliance of diagnostic and therapeutic possibilities for the treatment of acute diseases. Furthermore, organisational (emergency medical services, documentation, admission to hospital and intensive care unit) and ethical problems of acute medicine are discussed. In the practical course, students play through different emergency cases (unconsciousness, breathing arrest, cardiac arrest, anaphylaxis, etc.) on a phantom.

DENTAL CLINICAL PRACTICAL

Contents:

During the dental Clinical Practical students learn multidisciplinary Clinical Patient treatment supervised and instructed by dentists authorised to dental practice. Students acquire knowledge and specialised skills in anamnesis, diagnostics, multidisciplinary developing treatment schedules, processing applicatory Radiology and Hygiene as well as performing practical dental laboratory tests. The 72-weeks-practical has to be completed at individual departments of the Bernhard Gottlieb Universitätszahnklinik, namely:

- Central dental ambulance in the amount of at least 60 days from semester 9 to 12
- Department for Orthodontia in the amount of at least 45 days at the by the day from semester 11 and 12
- Department for Oral Surgery in the amount of 45 days during the semester 9 and 12
- Hygiene and Sterilisation in the amount of at least 10 days during semester 9 and 10

Further emphasis 72-weeks-practical is placed on:

• Semester 9 and 10: Conservative Dentistry and Periodontology



• Semester 11 and 12: Prosthetics and Surgery

6 MASTER STUDIES OF MEDICAL INFORMATICS N936

The objective of the Master Studies of Medical Informatics is a scientific professional qualification which enables the degree holders to apply informatics in the various fields of biomedical research, medicine and health care. According to the chosen focus this could be the Bioinformatics, Neurological Informatics, the Clinical Informatics or the Public Health Informatics

Medicine is the area, in which because of the complexity and also because of the importance methods of informatics are highly significant: such as structuring of medical information, evaluation of the information quality, the analysis of digital and digitised information, the modelling and assistance of workflows within the framework of patient management, visualization of information, image processing, therapy planning, telemedicine and also within the framework of Public Health and Health Care.

The amount of work is 120 ECTS Credits according to 4 terms.

During the 4 terms of the Master Studies of Medical Informatics students have to attend compulsory courses to the extent of 80 hours.

The academic degree awarded is "DI" Diplom-Ingeneur(in).

COURSE CATALOGUE MEDICAL INFORMATICS									
	Basic Courses		Enhanced Courses		Interdisciplinary Informatics				
	Module 1 Taxonomy, Net working & Text Mining		Module 3 Statistics for Medical Informatics		Module 9 Advanced Software Engineering				
1. Term	Module 2 Data Bases, Cross linking & Evaluation Systems								
	Core subjects: combination 1 Block Bioinformatics	or	Core subjects: combination 2 Block Neuroinformatics		Core subjects: combination 3 Block Clinical Informatics		Core subjects: combination 4 Block Public Health Informatics		
	Module 10 Introduction to Bioinformatics		Module 14 Introduction to Neuroscience	or	Module 18 Signal Processing and Data Visualization	or	Module 21 Public Health Policy and Healthcare Management		
			Enhanced Courses (cont.)		Interdisciplinary Informatics (cont.)				
			Module 4 Medicine for Medical Informatics		Module 6 Intelligent Data Analysis				
2. Tern			Module 5 System Analysis & Image Processing		Module 7 Man-Machine Interfaces				
					Module 8 Knowledge-based Systems				
	Core subjects: combination 1 (cont.)		Core subjects: combination 2 (cont.)		Core subjects: combination 3 (cont.)		Core subjects: combination 4 (cont.)		
Term	Module 11 Applied Bioinformatics		Module 15 Introduction to Neuroinformatics		Module 19 Application in Clinic & Research	or	Module 22 Epidemiology und Biostatistics		
ы	Module 12 Extended Basics of Bioinformatics	٥r	Module 16 Cell Biology of Neurons	Ŀ	Module 20 Information Systems & Decision Support		Module 23 Information Systems		
	Module 13 Bioinformatics: Practical Course		Module 17 Signal Processing in Nervous Systems		Attention: One of the 4 combinations		of the Core Subject has to be chosen!		
	Electives + Thesis Tutorials								
4. Term	Master thesis + Thesis Tutorials								





7 EDITORIAL

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