



University of Applied Sciences: Campus Wien

Department: Health

Section: Radiological Technology

Institutional Erasmus Code: A WIEN63

Institution Website: www.fh-campuswien.ac.at

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FH Campus Wien

University of Applied Science

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[Additional Information for Radiological Technology Exchanges:](#)

Online Application

http://www.fh-campuswien.ac.at/en/international/international_students/incomings/application/

We would like to point out that the dates given at the website (above) and in the student handbook are not valid for our ERG Exchange Module!

Application deadline for ERG Module (January – April) is: **20. October**

Radiation monitoring

TLD dosimeters will be provided and radiation protection training will be organised for you. **Please bring your own radiation protection results from the last 6 month with you.**

Health Insurance

Health insurance is free for all EU citizens with a European health insurance card. This should be arranged prior to your arrival to Austria.

Laboratory test requirements

A radiation protection examination at our university will be organised and therefore we need some laboratory test from you to bring along from your home country.

The results should not be older than 6 -7 weeks.

Please bring from your home country a complete blood count and urine status: urinary protein, urinary glucose and addis count.

You will have a doctor's appointment (free of charge) for our required radiation protection examination.

It would be sensible, but it is not compulsory to have a hepatitis-B-immunization and a hepatitis-B-Titer

Uniforms

Please bring for working in the hospital white trousers (2 or more), enough white T-shirts, comfortable shoes for working, which should only be worn in the hospital. You will have to launder your uniform yourself.

Personal name badge are required in the hospitals – it should be brought by the students.

Furthermore all students are encouraged to bring their own radiographic markers for use during their clinical placement

Winter clothes

Temperatures can vary from -10 to 10°C in winter time. There can be some snow, therefore we recommend warm clothes and boots.

Meals

Foreign students have the possibility for food at the university or at most of the hospitals where their practical courses are, but they will have to pay for themselves.

Travel information

Vienna is easily accessible by train as well as by plane. Vienna's two mayor train stations are Wien Westbahnhof und Wien Meidling. FH Campus Wien can be reached easily coming from all two train stations.

Vienna International Airport is located around 20 kilometres from Vienna and can either be reached by bus, train or CAT (City Airport Train). Depending on where you want to go, it takes between 15 and 45 minutes to go from Airport to Vienna.

Vienna has an excellent system of public transportation. Subways run from around 4:00 am to 12:30 am on weekdays and throughout the night on Fridays, Saturdays and days preceding public holidays. During all other nights, night buses are available.

Time Zone

Austria's time is set according to Central European Time (cet).

Important Telephone Numbers

Ambulance	144
Fire Brigade	122
Police	133
Int. Emergency	112

Opening times of the banks (generally)

Monday, Tuesday, Wednesday, Friday 8:00 to 12:30 and 13:30 to 15:00

Thursday 8:00 to 12:30 and 13:30 to 17:30

Outside of the banks money can be withdrawn throughout Austria at cash points around the clock. National and international „Maestro“ cards and MasterCard, American Express, Visa and Diners Club cards are accepted as well as Cirrus and Visa/Plus cards. Credit cards are accepted at numerous restaurants and shops in the city and tourist centres.

Cost of Living

The EURO (€) is the official currency in Austria. 1 EURO equals 100 Cent.

The cost of living in Vienna as stated in this guide is only for orientation.

Average costs

Living approx. EUR 200 to 300

Food approx. EUR 250

Semester ticket EUR 128.50

Daily newspaper approx. EUR 1

1 litre of milk approx. EUR 0.90

1 big loaf of bread approx. EUR 2

1 kg coffee approx. EUR 3.50

Movie ticket approx. EUR 8

Data on International Office:

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Information about Studying in Vienna/FH Campus Wien

http://www.fh-campuswien.ac.at/en/the_fh/organisation_of_the_academic_year/

<http://www.facebook.com/FH.Campus.Wien>

<http://twitter.com/#!/FHCampus>

http://www.fh-campuswien.ac.at/en/studying_in_vienna/

www.fh-campuswien.ac.at

Information about Austria:

<http://www.austria.org/>

<http://www.bmeia.gv.at/en/foreign-ministry/austria/culture.html>

For general information regarding studying at the FH Campus Wien and living in Vienna, please consult the “**Welcome Guide for Exchange Students**”.

Practical placement – 12 ECTS (95% attendance is required)

1. Practical Course in Angiography:

Duration: 4 Weeks

Course content:

Preparation and carrying out of examinations, scoring and analysis of the results in relation to qualitative guidelines in angiography, interventional radiology and cardiological angiography.

Special focus is laid in post processing in Angiography to apply the knowledge and skills which were gained at the Workstations and in the week of theory at the FH-Campus Wien.

Clinical placements in angiography are offered in these Viennese hospitals:

AKH: <http://www.akhwien.at/default.aspx?pid=80>

KFJ: <http://www.wienkav.at/kav/kfj/>

Hietzing: <http://www.wienkav.at/kav/khl/>

2. Practical Course in Computer Tomography:

Duration: 4 Weeks

Course content:

Preparation and execution of examinations / evaluation and analysis of the results in terms of quality guidelines in the computed tomography.

Special focus is laid in post processing in CT to apply the knowledge and skills which were gained at the Workstations and in the week of theory at the FH-Campus Wien. Clinical placements in CT are offered in various Viennese hospitals. Students are expected to work from 8 am – 2 pm. (Half an hour lunch break is included in this time)

EXCHANGE MODULE –

MEDICAL IMAGE GENERATION AND PROCESSING /

POST PROCESSING (ANGIO and CT) – 20 ECTS

Lectures for all Erasmus students will be provided in English, separately from the Austrian students. The Erasmus exchange module is composed of MEDICAL IMAGE GENERATION AND PROCESSING / POST PROCESSING (ANGIO and CT)

Credits theory	Practice:			Other credits: (German language and Austrian culture course)
	Credits Placement	Weeks with patients	Total hours of Placement	
7 ECTS	10 ECTS	8 weeks	220 h	3 ECTS

Module		A		B	C	
	Language Course	Post Processing Angiography	Practical Course Angiography	Image generation and processing	Post Processing CT	Practical Course CT
Weeks	1	1	4	1	1	4
ECTS	3	2	5	3	2	5
Lecturer	Int. Office	Iris-Cordula Slingsby		Godoberto Guevara R.	Sylvia Unterhumer	
Where	UAS Campus	UAS Campus	in Hospital	UAS Campus	UAS Campus	in Hospital

Assessment

An exam will be hold after finishing the modules Medical Image generation and processing and a short oral exam will be hold after PP in Angiography and CT.

1. LANGUAGE OR CULTURE COURSE

These two courses are run by the International Office, and each student takes part in either a German language and Austrian cultural course.

2. IMAGE GENERATION AND PROCESSING

This course has two parts to it. The first part is in the Area of **Data Acquisition** and the second part has **image processing** as content.

Course contents Data Acquisition,

Data acquisition and digital imaging

Technology of radiological imaging systems (film, memory screens and flat-detectors) resolution.

Course contents Image Processing

Terms and definitions; / technical bases; / Methods for single and multiple image processing; / image processing functions; / mathematical bases of image processing (types and principle of filter and reconstruction algorithm); / Multi-modality image fusion (e.g. SPECT and CT); / possibilities and limits of image processing and reconstruction (2D, 3D, 4D); / Presentation of innovative technologies (e.g. Virtual surgery, Navigation, Computer Aided Surgery)

At the end of the course the students will be able to:

- explain the process of the data acquisition and digital imaging
- understand image quality of digital systems
- The students will understand
- To describe the process of analog and digital picture emergence
- To explain the principles of image processing, image fusion, and reconstruction.

References:

SUETENS Paul: Fundamentals of Medical Imaging.- Cambridge University Press
2000

3. POST PROCESSING ANGIO

This course has two parts to it. The first part is the theory of Angiography as relevant for Workstation case studies. The second part is hands on training at the 10 Workstations. The Workstations are Siemens Syngo MultiModality Workplaces.

Course contents

Analysis of acquired image and technical assessment in relation to qualitative guidelines. Learning post processing techniques and applying them to real life case studies in angiography.

At the end of the course the students will be able to:

- perform the picture-post processing independently, and optimize it if necessary
- analyse the test results with regard to qualitative assessment of errors and their causes,
- identify correct image quality
- propose appropriate ways of further radiographic technical measures
- document the investigation and treatment data and analyze the results

4. POST PROCESSING CT

This course has two parts to it. The first part the theory of Workstation case studies and the second part is hands on training at the 10 Workstations. Our Workstations are Siemens Syngo MultiModality Workplaces.

Course contents

Course contents

- Imaging and image analysis (Post processing): thickness, increment, kernel, Window Center, viewing levels;
- 2D (MPR, thin-MIP, CPR);
- 3D (MIP, SSD, VRT);

At the end of the course the students will be able to:

- perform the picture-post processing independently, and optimize it if necessary
- analyse the test results with regard to qualitative assessment of errors and their causes
- identify correct product quality
- propose appropriate ways of further radiographic technical measures
- document the investigation- and treatment-data and analyze the results

References:

-) PROKOP, M./GALANSKI, M.: Computed Tomography of the Body.- Thieme; Stuttgart 2003

We wish you a pleasant stay in Vienna, Austria.

Welcome! Willkommen !