REACH HIGHER.

If you want to reach higher, there is something you can do. For example, complete one of the most promising degree programmes in Austria. Hagenberg, Linz, Steyr and Wels offer 60 Bachelor’s degree programmes and Master’s degree programmes with practice-oriented and internationally relevant content. And with promising job prospects.

@hagenberg @linz @steyr @wels
The highest quality in research and teaching.
The FH Upper Austria provides university-level tuition with a strong focus on practice-orientation; our research aims at being able to actively take part in shaping our future. Innovative forms of teaching and learning as well as the constant updating of teaching content are state-of-the-art at our institution.

Education as Your Personal Key to Success

Professional success means something different to everyone. In any case, getting the job one wants is an important step on the way there. By studying at Austria’s largest university of applied sciences, you obtain the skills you will need to do so: regardless of whether you are embarking on your first course of studies after leaving school or if you want to continue your tertiary by completing a Master’s degree.

The University of Applied Sciences Upper Austria’s (FH Upper Austria) degree programmes, ten of which are taught in English, have been offering practice-oriented, academic studies for over twenty years. The fields offered range from engineering and economics to health and social sciences – a variety of branches that is matched by hardly any other institution. The labour market is increasingly calling for international experience. Studies abroad offer the opportunity to acquire this advantage even before embarking on working life. Furthermore, project management, intercultural sensitivity and social skills are gaining importance.

The state of Upper Austria has invested about 295 million euros in the past years to maintain the highest international standards at the four campuses of FH Upper Austria through modern infrastructure, a versatile selection of study degree programmes and highly qualified teaching staff.

If you attach importance to practical orientation in your studies and to a competitive, internationally recognised qualification – studying at the FH Upper Austria is the right way to go. This study guide should serve as an aid to choosing the right degree programme. We would be happy to welcome you to Upper Austria soon.

Study in Upper Austria. Gain international experience!

Dr. Josef Pühringer
State Governor of Upper Austria

Dr. Gerald Reisinger
University President
FH Upper Austria

Mag. Thomas Stelzer
Deputy State Governor

#REACH HIGHER
Contents

Study in the Heart of Europe .......................................................... 9
Reasons to Study at the FH Upper Austria ............................... 10
Studying in Hagenberg ................................................................. 13
Studying in Linz ............................................................................ 17
Studying in Steyr ................................................................. 21
Studying in Wels ................................................................. 25
What Does a Degree Programme Entail? .............................. 28
Costs and Funding ............................................................ 29
Admission Requirements ...................................................... 30
5 Steps to Studying at the FH Upper Austria ....................... 31
Which Permits are Required? .................................................. 32
Studying Internationally at FH Upper Austria ...................... 35
Gaining Practical Experience ................................................. 37
What Does the Campus Have to Offer? ................................. 39

Programmes in English

Informatics, Communications and Media
Hagenberg Campus
- M Energy Informatics (ENI) ................................................... FT 42
- M Interactive Media (IM) ......................................................... FT 44
- M Mobile Computing (MC) ...................................................... FT 46

Applied Health and Social Sciences
Linz Campus
- M Medical Engineering (MME) ........................................... FT 48

Programmes in German

Engineering and Environmental Sciences
Wels Campus
- M Electrical Engineering (EE) ............................................ FT 56
- M Automotive Mechatronics and Management (AMM) ........ FT 58
- M Innovation and Product Management (IPM) ..................... FT 60
- M Sustainable Energy Systems (SES) ................................. FT 62

Management
Steyr Campus
- M Global Sales and Marketing (GSM) .............................. FT 52
- M Global Sales and Marketing (GSM) ......................... PT FT 54

Degree programmes at Hagenberg Campus ......................... 66
Degree programmes at Linz Campus .................................. 74
Degree programmes at Steyr Campus .................................. 76
Degree programmes at Wels Campus ................................. 80
German Preparation Programme ....................................... 88

FT = Full-time
PT = Part-time
B = Bachelor’s degree programme
M = Master’s degree programme
Austria is a beautiful country in the heart of Europe with a rich cultural heritage. It was the home of Mozart, Klimt, Freud, and 'The Sound of Music'. Austria’s snow-capped mountains, crystal-clear lakes, rivers and historic cities such as Salzburg and Vienna attract tourists from all over the world. The Austrian standard of living is one of the highest in the world.

Austria is always ranked top in the annual financial report of the United Nations Development Programme (UNDP) and stands for:

- Quality in education
- Excellent social security
- Reliable health care for all
- A low crime rate

The national language is German, but most people speak English well.

Upper Austria

The state of Upper Austria is located in the north of Austria and combines natural beauty with a thriving economy. Upper Austria is one of Europe’s leading regions in education, technology and employment. The economy is very much export orientated – in fact, more than 25% of Austria’s total exports originate from here.
Reasons to Study at the FH Upper Austria

Practice-oriented – International – Strong in Research

Anyone who studies at Austria’s largest and, in terms of research, strongest university of applied sciences has no need to worry about his or her future. The FH Upper Austria’s schools in Hagenberg, Linz, Steyr and Wels offer 60 Bachelor’s and Master’s degree programmes to choose from. With practice-oriented contents and job prospects that are more than promising, the FH Upper Austria is internationally orientated to enable its graduates to meet global challenges. The FH Upper Austria in figures:

- 4 schools
- 5,400 students – 13,300 alumni
- 60 degree programmes
  - (30 Bachelor’s degree programmes – 30 Master’s degree programmes)
  - thereof 10 are taught entirely in English plus more than 300 modules taught in English
- 340 research projects currently in progress

Roots in Practice, Experts from Business

The FH Upper Austria cooperates intensively with companies and institutions thus winning the support of leading experts for teaching and for practice-oriented student projects. CEOs, executive board members, entrepreneurs and established researchers with many years of practical experience in innovative and successful businesses in relevant professional fields give students insights into different sectors, leadership issues and challenges of today and tomorrow.

Sought after by the Labour Market

A recent survey of 200 companies has given the FH Upper Austria very good marks (Spectra, 2014). The strong practical orientation through an intensive cooperation with businesses and industry as well as our graduates’ professional expertise, team spirit and communication skills, analytical skills and project management skills were rated very positively.

More than 80 percent of the companies even reported that degree programmes at universities of applied sciences are better suited to the modern working world than degree programmes at traditional universities. This feedback is also confirmed by the good job prospects enjoyed by FH Upper Austria alumni.

Class Rather than Mass – Optimum Support for Students

Students at the FH Upper Austria receive the best-possible support from a modern infrastructure, personal attention and competent staff. The FH Upper Austria particularly fosters the founding of companies by its alumni; a service centre provides them with advice and practical support. Thus several successful entrepreneurial careers have begun at the FH Upper Austria from where internationally successful start-ups like Runtastic have sprung.

Study Where New Knowledge is Generated

The FH Upper Austria generates one third of the total research output of Austria’s universities of applied sciences. With a turnover of around 14 million euros, the FH Upper Austria is top ranked in the whole German speaking area. Students experience applied research quite directly: the latest research findings flow quickly into teaching. Some Bachelor’s and many Master’s degree students actively participate in research projects and profit from the FH Upper Austria’s large network of partners.

Current research topics often also provide practice-relevant tasks for final assignments.

Live, Where it is Worth Living

Austria is a country with a long tradition and rich history. This can be seen, felt and above-all experienced everywhere. Upper Austria is, however, also primarily a versatile region and a pleasant one to live in with its good infrastructure, well-functioning health care system and a very high standard of living. The capital Linz has developed into a vibrant centre without losing the high level of safety it offers. After Vienna, Upper Austria is the economically strongest federal state and very export-oriented. This in turn gives our alumni very good job prospects in a wide range of sectors.

Networking without Borders – Partners on all Continents

The FH Upper Austria fosters a network of around 240 partner universities in about 60 countries. In addition to the ten degree programmes taught in English and around 20 double-degree programmes that are currently offered, the range of courses taught in English is continuously being expanded and currently comprises over 300 courses. Students from all around the world can be met at the four faculties. As well as a semester abroad it is also possible to complete an internship or period of research abroad for example.

Plus: Currently the FH Upper Austria does not charge tuition fees.
Reach higher! Study informatics, communications or media at Hagenberg. Choose from no fewer than 7 Bachelor’s and 12 Master’s degree programmes and join our close-knit community of 1,400 students and 4,500 alumni. Highly experienced staff of 260 professors and lecturers will teach you all you need to know about theory and practice in your chosen subject.

Studying in Hagenberg
School of Informatics, Communications and Media

Hagenberg is among Austria’s pioneers in applied university teaching and research and introduced its first degree programme as long ago as 1993. Since then, our range of degree programmes has expanded considerably. Now, you can choose from no fewer than 19 Bachelor’s and Master’s degree programmes in the fields of informatics, communications and media, many of which have won a top ranking in national and international student and employer surveys.

Research activities focus on cutting-edge topics: Software Technology & Applications, Media & Knowledge Technologies, and Information & Communication Systems. And, with researchers at our Linz-based School of Health and Social Sciences, we carry out research aimed at improving the quality of life for the elderly.

Welcome to Austria’s Silicon Valley

It’s no surprise that Hagenberg is often called ‘Austria’s Silicon Valley’, a reputation that extends widely abroad. With its unique combination of IT-related education, research and business in one place – ‘Softwarepark Hagenberg’ – it has established itself as a powerhouse of innovation in computing and software development. Hagenberg Campus is an important part of this successful technology park founded in 1989, which today hosts 70 companies, including 20 start-ups, and 12 research institutes, including a Christian Doppler Laboratory and two Josef Ressel Centers. More than 1,000 people are employed here, while 1,400 students work towards a Bachelor’s or Master’s degree programme at our School of Informatics, Communications and Media. A further 50 are studying for a Master’s degree programme or PhD at an institute of the Johannes Kepler University Linz (JKU), or on our School’s and the JKU’s joint PhD programme. This dynamic environment not only provides an ideal setting for a practice-oriented, academic education but also excellent networking opportunities as well as attractive, on-site internships and employment opportunities for our students.

Modern Campus University

Our School’s three complexes with 12,000 m² offer plenty of space for your studies and research. They house over 80 computer labs, seminar rooms and lecture halls with state-of-the-art equipment, a bio lab, an audio studio and a greenbox studio. Our campus also has a comprehensive library, a large student canteen and a pub.

www.fh-ooe.at/campus-hagenberg
Accommodation

Our School is located amid the idyllic park of the historic Hagenberg Castle. And in the small town there is everything needed for a well-balanced student life. Shops, supermarkets, restaurants and cafés are only a few minutes’ walk away. On campus, there are ten halls of residence with space for around 600 students, as well as flat-sharing communities and private accommodation for rent. Hagenberg is just 20 km northeast of the capital city Linz and connected by the A7 motorway and public transport (buses). The nearest train station is just 10 minutes away by bus.

Sport and Leisure

Our Sports Society organises a wide range of activities, from capoira and running to Schuhplattler dance and zumba, providing exercise not for the brain, but also the body. A new sports hall with a climbing wall, an outdoor fun court and beach volleyball courts are close by. Our university complex houses a rehearsal room for our many student bands. We are located in the picturesque Mühlviertel region, perfect for mountain biking, hiking, skiing, riding, golf, swimming etc. The capital city Linz with its rich cultural life is only 25 minutes away by car, and the Salzkammergut lake district and Alpine mountains are less than a one and a half hours’ drive.

The ÖH Students Union represents the student body and organises – often with our student association IF – various social activities. With numerous student events including our popular Winter and Summer Parties, our university has a lot to offer when it comes to entertainment and intercultural exchange. Likewise, social life on campus makes for a homely atmosphere and a close-knit student community. Our annual FH>>next careers fair with 130+ IT and media companies, various start-up events, along with our Security Forum, Hacking or Knowledge Nights, LAN parties, game jams and coding contests all provide excellent networking opportunities.

International

Our 80 partner universities in 30 countries worldwide provide opportunities for a semester or two abroad. International and exchange students are professionally supported by our International Office and Buddy Network during their Hagenberg stay. At our International Evenings and Summer Workshop on IT Education & Research, too, you can meet and exchange ideas with people from other nations.

School of Informatics, Communications and Media
Softwarespark 11, 4232 Hagenberg
Phone: +43 5 0804 20, info@fh-hagenberg.at
Reach higher by studying at our School of Applied Health and Social Sciences in Linz. Choose from 4 Bachelor’s and 3 Master’s degree programmes. Approximately 260 full-time and part-time professors and lecturers are currently teaching roughly 800 students and passing on practice-oriented knowledge and know-how. Almost 2,000 graduates have already laid the foundation for their careers right here.

#STUDY IN LINZ

## Studying in Linz
School of Applied Health and Social Sciences

In the departments of ‘Health Care, Social and Public Management’, ‘Medical Engineering’ and ‘Social Work’, students receive academic knowledge and practical insights in the management, technology, or services offered in the health and social sector. Besides teaching, the three departments focus on fascinating tasks in applied research with a view to shaping tomorrow’s society. Our motto is: people are the focus.

### Welcome to Linz, the ‘European Capital of Culture 2009’

Linz, the capital of Upper Austria, is home to several universities and colleges and has roughly 200,000 inhabitants. It lies at the heart of one of the most economically powerful regions of Europe. The city is characterized by its historical baroque architecture as well as by space created specifically for the innovative ideas of our future information society. Gastronomically, Linz offers everything from quaint street cafés in the summer to traditional Austrian coffee shops to trendy bars. Urban flair and a cosmopolitan attitude go hand in hand with Austrian tradition and established structures. The fact that Linz was chosen to be the European Capital of Culture in 2009 is testimony to its rich cultural life and its general convivial atmosphere.

### Modern State-of-the-art University Buildings

The campus buildings comprises a large number of state-of-the-art lecture halls and seminar rooms, six laboratories, as well as a light flooded, well-equipped library with access to numerous relevant databases. A comfortable lounge area with free Wi-Fi and TV screens serves as a communicative meeting point. Students’ needs and wishes are well-represented by the student union on campus (ÖH) and by elected representatives in their respective departments.

### Accommodation

There are numerous student residences in Linz – please refer to our homepage for a comprehensive list. The WIST-dormitory is located in the immediate vicinity of the FH-Campus. Of course, it is also possible to share apartments. As in many larger cities, the demand for housing in Linz is rather high, but, generally speaking, the situation on the housing market is relatively relaxed.

www.fh-ooe.at/campus-linz
Sport and Leisure

Sport
The beautiful lakes of the Salzkammergut region are ideal for windsurfing, kitesurfing, and sailing. The hilly Mühlviertel region lends itself to being explored by mountain bike. The riverside paths on both sides of the Danube can be used for jogging. There are numerous sports clubs, such as the sports club of the FH Upper Austria, which offer a large range of fitness activities, especially of the indoor variety.

Culture
As the European Capital of Culture 2009, Linz offers dense cultural ‘hardware’ and ‘software’. The regional theatre company operates a music theatre with opera and ballet as well as a traditional playhouse. The theatre company ‘Phönix’ also puts on traditional plays. The ‘Brucknerhaus’ concert hall offers excellent classical as well as jazz and ‘new’ music, while the ‘Posthof’ offers outstanding popular music events as well as cabaret and smaller-scale performing arts. There are also impressive museums such as the ‘Kunstmuseum Lentos’ (art museum), the ‘Oberösterreichische Landesmuseen’ (regional museums), the ‘Stadtmuseum Nordico’ (city museum) and the ‘Ars Electronica Center’ (AEC). In addition, Linz supports a large variety of artistic initiatives and performances in a number of interesting and alternating locations, as well as independent movie theaters and cultural festivals in the areas of classics, film, pop, media art and street art.

International
The School of Applied Health and Social Sciences collaborates with roughly 70 colleges and universities worldwide. This offers our students various opportunities for studying abroad and intense exchange of knowledge. Many of our students also benefit from international experience gathered during internships abroad. A buddy network supports our international students on campus and abroad.

School of Applied Health and Social Sciences
Garnisonstraße 21, 4020 Linz
Phone: +43 5 0804 50, info@fh-linz.at
Studying in Steyr
School of Management

Steyr started with its first degree programme in 1995 and is one of the pioneers of the university of applied sciences sector. The excellent education including lecturers with a business background, the ideal preparation for professional life and the principle of internationality which is lived through the connection to more than 100 partner universities worldwide and over 200 international students makes studying at Steyr Campus something special.

The 11 degree programmes have often achieved top scores in international rankings. More than 100 lecturers and scientific research assistants are scientifically active in the research areas of ‘Logistikum’, ‘Production and Operations Management’, ‘Digital Business’, ‘Accounting, Controlling and Financial Management’, ‘Global Business Management’ and ‘Support for Clinical Core Processes’.

Welcome to the International Management Campus

The ability to act internationally is a decisive success factor in the age of the global economy. Internatioality is therefore lived accordingly and steadily expanded at the FH Upper Austria, Steyr Campus. Focused around the core competence ‘management’ there are numerous possibilities for cooperation with companies and organisations. Practice oriented teaching and research at the highest level with partners from all over the world enable students to acquire the latest know-how. Degree programmes which are held in English, a semester at a partner university or an internship abroad open up the very best possibilities to gain international experience and to develop not only professionally but also personally. This international network guarantees that the managers of tomorrow are best prepared for the constantly changing conditions of a global economy and provides them with the tools they need for an international career.

Modern, Well-Equipped Campus University

The campus buildings with their excellently equipped lecture halls, IT and seminar rooms together with a simulation laboratory and a modern business interaction laboratory provide an ideal atmosphere for study and research. In addition, a comprehensive library and a cafeterias with a terrace are also also available.
Living in Steyr

Steyr is not only a romantic city but is also a centre for the automotive and the automotive supplier industry. Well respected companies such as BMW, MAN, SKF, NKE or GFM are located here. Cooperation with Upper Austrian and international industry means that it is not difficult for students to find an internship during their studies or a job afterwards. The campus is located very close to the historic city centre so that shops, restaurants, various cultural institutions together with the castle park and the train station are easily accessible on foot. The students’ hall of residence, the Kolpinghaus, and numerous moderately priced student rooms and bedsits are a few minutes’ walk away.

Sport and Leisure

Anyone seeking a physical balance to their work will find that the FH Sports Club offers just the thing. Numerous activities such as climbing, pilates, football or rowing are provided for students. In addition, there is a fitness studio and sports field very close to the campus and an ice skating rink for winter pleasure. Mountain biking and climbing are possible in the Kalkalpen National Park which is approximately 50 km away. Skiing, horse-riding and swimming possibilities can be found in the immediate vicinity. The student union (ÖH) provides students with help and advice and organises numerous events such as the FH Ball, the Boatmania and the students’ pubs which ensure that students can make use of leisure activities in addition to their studies and to encourage a close and familiar relationship among students. In addition, students have the possibility to participate in events such as the FH Career Fair, various Management Talks or at InnoCamp36.at where they are also able to forge contacts with Industry.

International

The School of Management is an international hub for top management courses and enables students to spend a semester abroad at one of the 100 partner universities in approximately 50 countries throughout the world with the aim of strengthening their intercultural competences and foreign language skills. A buddy network supports regular or exchange students. Campus events such as the International Week with the Cross-Cultural Business Conference or the International Fair provide an exciting knowledge transfer and cultural exchange with other nations.

School of Management

Wehrgrabengasse 1–3, 4400 Steyr
Phone: +43 5 0804 30, office@fh-steyr.at
Reach higher by studying engineering and the environmental sciences in Wels.
Choose between 13 Bachelor’s and 11 Master’s degree programmes. Knowledge is conveyed to the currently 1,800 students by around 300 professors and lecturers using a practice-oriented approach. Up to now, 4,000 graduates have laid the foundations for their career with us.

#STUDY IN WELS

---

**Studying in Wels**
**School of Engineering and Environmental Sciences**

The Upper Austrian School of Engineering and Environmental Sciences in Wels is one of the pioneers in the university of applied sciences sector since its founding in 1993. With its main focus areas and the highly successful research projects it counts as one of the most renowned Universities of Applied Sciences in Austria. With approximately 100 full-time members of academic staff and a very high RD share in acquired third-party funding in 6 different research areas, it is among the best universities of applied sciences, also in research matters.

Research is carried out in Wels in the areas of automation technology and simulations, measurement and testing technology, bio-energy and food technology, energy and the environmental sciences, innovation and technology management, materials and production technology.

**Welcome to the Leading Research School**

The School of Engineering and Environmental Sciences in Wels offers scientifically sound, hands-on degree programmes that are internationally recognised. There are many reasons to study at the University of Applied Sciences in Wels: in addition to the high-quality training, good staff-student ratio and top job prospects, a seamless transition into a meaningful career is one of the greatest advantages. Many students complete their Bachelor’s or Master’s Theses in cooperation with partner companies or as research assistants in one of the numerous research projects in Wels during their studies.

**Modern, Well-Equipped Campus**

The University of Applied Sciences Upper Austria Campus in Wels is also one of the most modern technical faculties. A total of around 60 million euros have been invested in the premises and laboratory equipment in Wels to make it state of the art. Meanwhile, the campus extends across 8 buildings with about 60 modern laboratories, a library and cafeteria.

**Living in Wels**

In its 2,000 years of history, the second largest city in Upper Austria developed into a hub especially during the Roman era and the Middle Ages. The Wels International Fair...
and the small and medium-sized enterprises in and around the metropolitan area of the city today makes it an important business location with an international reputation. Cooperation between business, industry and the Upper Austrian School of Engineering and Environmental Sciences in Wels make it an extremely attractive place to study, with ideal travel connections (motorway A25, A9, A1; Western-line of National Railway). The nearby Kolping student residence hall can accommodate 145 people, and the town of Wels residence hall can accommodate 210 people. Additional student housing is currently in the planning, although many students live in shared apartments.

**Sport and Leisure**

A university-wide sports club provides the physical balance to the daily ‘mental labour’. This includes all common types of sports, from running and fitness training, football and volleyball, mountain biking, snowboarding, climbing, karate and kickboxing to dance classes. The lakes of the Salzkammergut (Attersee, Traunsee, Mondsee) and the nearby mountains and ski areas are only about 45 minutes away by car. In addition to the Roman town of Wels, the state capital Linz (approx. 30 minutes by car and 10 minutes by train), offers a rich cultural setting. For these reasons, students in Wels benefit on the one hand from the top job prospects in the industrial triangle of Linz – Wels – Steyr, while offering a wealth of recreational facilities on the other.

The Student Union takes care of student interests and organises numerous events, with such fixtures as two big campus parties every semester, the Campus Ball, the Solarcar Challenge, the Alumni Meeting and the Students’ Union ‘Seiterl’ or Punch Stands, which are held regularly on Thursdays, helping to form the social ‘family’ of students in Wels. The Student Union offers a Going-Out Time-Table with special perks for the nightlife in Wels.

**International**

Around 95 partner universities in more than 30 countries currently offer students attractive opportunities for a semester abroad. A buddy network supports international full-time and exchange students, while campus events, such as the International Evening and English Lunch, encourage an active exchange of knowledge and culture with students from other nations.

**School of Engineering and Environmental Sciences**
Stelzhamerstr. 23, 4600 Wels
Phone: +43 5 0804 40, info@fh-wels.at
What Does a Degree Programme Entail?

A six-semester Bachelor’s degree programme leads to the internationally recognised first academic degree, the ‘Bachelor of Arts’ (BA) or the ‘Bachelor of Science’ (BSc). This opens the doors to working life and also to a four-semester Master’s degree programme. The ‘Master of Arts’ (MA) or ‘Master of Science’ (MSc) is the prerequisite for embarking on doctoral studies.

In the EU as well as in many non-EU-member countries the three-tier ‘Bologna-System’ – Bachelor’s, Master’s degree programme and PhD/Doctorate – facilitates the international recognition and comparability of academic degrees. This makes it possible for parts of degree programmes to be completed at different national and international universities. Credit for this is given via ECTS-credits ('European Credit Transfer System'), which are collected during a degree programme. A Bachelor’s degree programme at FH Upper Austria comprises 180 ECTS and a Master’s degree programme 120 ECTS.

Semester Abroad & Internship

Studying Abroad
A semester abroad provides new insights, experiences and contacts. It is an option that is open to all students subject to syllabus compatibility and/or agreement with the head of studies, in some degree programmes a semester abroad is even mandatory. Agreements with partner universities regulate the partial acquisition of their qualifications within the framework of a period of study abroad (double degree).

Internship
All Bachelor’s degree programmes include an internship in a company or organisation at home or abroad. Students will be supported in finding a suitable internship placement by the degree programme administration. In the case of part time students, special regulations take a student’s individual situation into consideration.

Order of Study
The good news is that study degree programmes are organised to make it possible to complete all prescribed courses and examinations in the intended study period. Students at the FH Upper Austria are not confronted with long waiting lists. Practice-oriented sessions and seminars in small groups guarantee optimum student support.

Specific focus areas have plenty of room in the syllabi. Teaching is carried out by professors from the FH Upper Austria as well as leading experts from the individual professional areas. These specialists and leaders from industry contribute their top know-how while providing valuable contacts to the real life working world.

Academic Calendar

>> Winter Semester: Beginning of September or beginning of October (depending on degree programme) to mid-February
>> Summer Semester: Beginning of March – mid-July

Costs and Funding

Financial Matters
A study degree programme is an investment in one’s own future, whereby financial aspects must of course be carefully considered. The FH Upper Austria does not charge its students tuition fees for degree programmes, regardless of whether a student comes from Austria, an EU member state or a non-EU country.

Cost of Living
The costs of accommodation and living vary depending on the city in which the school is located and on the student’s personal life style. In general one must calculate approximately € 550 – € 750 a month.

Grants & Scholarships
As the FH Upper Austria does not charge tuition fees, it is unable to offer students any further financial support. Nevertheless financial support may be available depending on your country of origin and degree programme. Details of these can be found on the Internet portal www.grants.at.

Information for Applicants from Germany
‘Auslands-BAföG’ is a grant from the German state for studying in Austria! Further information can be found under www.auslandsbafoeg.de.
Admission Requirements

An international school leaving certificate or university degree qualification can be recognised as equivalent to an Austrian one due to either a bilateral agreement or a proof of made up course content at an approved university, or official conversion into an Austrian qualification via the process known as ‘Nostrifizierung’. The required proof of fulfilling the entrance requirement for higher education also depends on the country of origin. Detailed information on individual countries and qualifications can be found on www.anabin.de. Every case has to be considered individually. In principle the following requirements apply:

**>> For Bachelor’s Degree Programmes**

‘A’-Level/high school certificate (or equivalent)

**>> For Master’s Degree Programmes**

Most degree programmes at the FH Upper Austria are designed consecutively. That means, there is a connection in terms of content between a Bachelor’s degree and the consecutive Master’s degree. Access to the Master’s degree programmes is open to graduates from relevant ‘related’ Bachelor’s degree programmes in other universities in Austria and abroad. Successful completion of at least a 6-semester specialised relevant Bachelor’s degree or a comparable academic qualification (min. 180 ECTS) from a recognised tertiary education institution is required. For specific prerequisites and recognition of previous qualifications please refer to the degree programme to which you are applying. In certain cases missing ECTS credits in certain subjects must be made up.

**>> Language Requirements**

Applicants from abroad must prove their proficiency in the language(s) of instruction at the time of their application. Depending on the degree programme, language certificates for German (at least B2) or English (B2, Toefl, IELTS certificate) must be presented. For attending the German Preparation Programme A2 Level is required.

Legalisation and Translation

Legalisation confirms the authenticity of documents and signatures and has to be done in three different modes (no legalisation is required, legalisation in the form of an apostille or full diplomatic legalisation), depending on the issuing country.

We accept original documents in German or English. Translations must be done, if required, after legalisation.

5 Steps to Studying at the FH Upper Austria

1. **Information**
   
   Being well-informed is a prerequisite of choosing the right degree programme and profession. You can obtain a wide range of insights from our website, social media, conversations with professors and students as well as information days.
   
   www.fh-ooe.at/programmes

2. **Application**

   Send your documents either immediately online or on paper. It is possible to apply for two degree programmes simultaneously.

   www.fh-ooe.at/application

3. **Admission Process**

   Applicants to all study degree programmes, who fulfil the formal prerequisites, will be invited to an interview. A further component of the process can be a potential test or a portfolio.

   www.fh-ooe.at/admission-process

4. **Feedback**

   Feedback: All applicants receive detailed information regarding the application process at the interview. Some programmes also send out written feedback regarding the status of their applications.

5. **Semester Start**

   Studying begins with degree programme specific introductory and info events on campus life.

**Deadlines for Application**

31st January | 31st March | 30th June 2016

This does not apply for: Media Technology and Design, Social Work, Mobile Computing (MSc), Energy Informatics, Interactive Media. For non-EU residents the respective deadlines may be shorter due to longer process times for visa applications.

Any applications for the academic year 2016/17, that reach us after the 30th June 2016, will be processed if places are available.
Which Permits are Required?

Entry and Residence Permit for Foreign Students
It is the student's obligation to take care of visa/residence permit arrangements for entry to and the duration of their stay in Austria.

Working in Austria
Whether or not students are allowed to work in Austria depends on the nationality, the kind of work and for nationals of non-EU countries also on the type of the residence permit held.

Exemptions
No work permit is needed:
>> In the case of activities in research & development
>> For students of most EU/EEA-countries (exception: students from Croatia still need a work permit till 2020)
>> For students who study at a university of applied sciences as part of a bilateral exchange programme (please note, this is only valid for internships up to 15 weeks for a Bachelor’s and 20 weeks for a Master’s degree programme and does not apply to international degree-seeking students)
>> In the case of students of non-EU countries for a maximum of the following working hours: students of a Bachelor's degree programme: 10 hours per week, students of a Master's degree programme: 20 hours per week (these hours can only be exceeded with permission from the AMS)
>> For internships included in the curriculum
>> For voluntary work (without commitment to work and without pay claim up to 3 months per calendar year)

Detailed information can be found in our ‘Guide for International Degree Seeking Students’: www.fh-ooe.at/guide-international-students
Studying Internationally at FH Upper Austria

Semester Abroad at Partner Universities
Semesters abroad can be completed at around 240 partner universities in about 60 countries. Many students take advantage of this opportunity as international experience not only looks good on a CV, but also provides linguistic competence, intercultural know-how and international networks and friends. A range of grants and financial support opportunities are available for financing the semester abroad. www.fh-ooe.at/partner-universities

Double Degree Programmes
In addition to a regular semester abroad, around 20 different double degree programmes are offered by the FH Upper Austria.

Internship Abroad
This opportunity to study abroad is also used by many students. The FH Upper Austria supports students with the necessary documents and information about grants. Travel and residence costs are met by the students themselves or the organisation offering the internship.

Studying in English
2 Bachelor’s and 8 Master’s degree programmes are offered entirely in English. Further international degree programmes are currently being planned. A detailed description of these degree programmes can be found in this study guide. Many lectures and practice-oriented sessions are taught in English in all degree programmes, the total range offered comprises 300 courses.

Internationalisation at Home
Over 500 exchange students from around the world complete their semester abroad at the FH Upper Austria each year, bringing international flair to the four schools. Courses taught in English, guest professors from all around the world, summer schools and international weeks are an important part of internationalisation at home. Moreover, these initiatives are also supported by many Austrian universities and organisations.

#INTERNATIONAL
Be right in the middle of things – from the start!
Making contacts as you are studying is considered to be good form at the FH Upper Austria. Our first-class network is what makes us the strongest Austrian university of applied sciences in research – and this, in turn, makes for excellent job prospects.

Gaining Practical Experience

Study Project
Projects are a fixed component of a degree programme. Small groups of students work on a concrete task set by a company or organisation in accordance with the syllabus. This gives students an opportunity to apply their up-to-date know-how in practice. The companies/organisations receive concrete project results, which are also presented by the students themselves.

Internship
While studying for their Bachelor’s degrees, students are required to complete an internship in a company or organisation in Austria or abroad. The aim of this is to achieve practical consolidation of knowledge and its target-oriented application in the future work environment. Students are required to solve a measurable and clearly defined project task. The task can be chosen from the taught content of the relevant syllabus. Companies support interns with professional expertise and also evaluate their performance. The duration of the internship is between 9 and 24 weeks.

Master Thesis
Students often write this academic paper for companies as this might be a career ticket. More and more students are also fascinated by research and use the master thesis as an opportunity to work on one of the numerous FH Upper Austria research projects.

External Experts
Experts who are involved in the day-to-day real-life working world bring state-of-the-art know-how and new perspectives into the courses. Complementing the work of our professors, they emphasise primarily the practice-oriented aspect of a university of applied sciences degree programme.

Events and Job Fairs
Various specialist exhibitions, forums and job fairs at the four faculties provide the students with a platform to get into contact with decision makers, experts and HR officers. Field trips and educational stays abroad open a further window into professional life.

Collaboration on Research Projects
Numerous master students can take on individual work packages in running applied research projects. This gives them an opportunity to gain first class competencies in practice-relevant research fields. As already mentioned, the master thesis can also be closely connected to project contents.
What Does the Campus Have to Offer?

Student Life
From a crazy boat race to a cell phone throwing contest, from a student party to a solar car challenge – the FH Upper Austria and its students plan entertaining events that make campus life more lively. There are 8 tertiary education establishments in Upper Austria and the student life in the campus cities Linz, Hagenberg, Steyr and Wels is as multifarious as one might therefore expect. Even if students do not study together, students from different universities often party together.

Sport
As a balance to studying, the sports club ‘FH OÖ Sportsteam’ provides students, alumni and staff with a wide range of opportunities to practise sport. There is something for everyone from yoga to triathlon at a range of different levels.
www.sportsteam.fh-ooe.at

Libraries
Libraries at each faculty provide numerous books, databanks and electronic journals on their relevant areas of focus. The impressive numbers: 107,000 print media – 10,000 e-Books – 290 periodical subscriptions – around 15,000 e-journal licenses.

Support for Company Start-Ups
The Transfer Center for Company Start-ups is a unique service provider for potential founders of enterprises and their successors from the FH Upper Austria. Experts test ideas for marketability and support founders with market entry and building up sales. 51 such start-ups were supported before the end of 2014.
www.akostart.at

Alumni Club
Alumni keep in touch with each other via the Alumni Club. Events, further education, travel and much more can be found on their agenda.
http://alumni.fh-ooe.at

Student Representatives
Students at all faculties of the FH Upper Austria are represented by campus and degree programme representatives as well as nationwide representatives from the Austrian Student Union (ÖH). The ÖH group from the FH Upper Austria sends a delegate to the national ÖH.
www.oeh.fh-ooe.at

#STUDENT LIFE
At the FH Upper Austria, it is possible to study your subject in English!

The FH Upper Austria offers a total of 10 programmes, which are taught exclusively in English. For the following 2 Bachelor’s and 8 Master’s degree programmes, no knowledge of German language is required.
Energy Informatics
Full-time, 4 Semesters (120 ECTS)

Degree: Master of Science in Engineering (MSc)
Admission Requirements: Completed Master’s or Bachelor’s degree with IT strand worth a minimum of 60 ECTS points, or a similar qualification; sound knowledge of English

Energy is the underlying heartbeat of the global economy – a critical factor in the production of nearly all goods and services in the modern world. Clearly, energy informatics – the application of information technology in this highly demanding field – is the key to securing its supply and achieving a sustainable future.

Prof. Dr. Christoph Schaffer
Head of Studies

Given the critical role of energy, the driving imperatives in any economy are ensuring security of supply, maintaining competitiveness and overseeing the transition to a low-carbon future. Key requirements in this respect are the strategic management of supply and improving its overall generation and distribution. Impacting on these challenging goals will be a variety of factors, including advances in renewables, e-mobility and green technologies, to name only a few.

Managing this changing environment will require intelligent IT solutions and therefore well-educated IT experts able to design and/or operate future smart grids, smart city infrastructures and enhanced energy supply systems. Our Master’s degree programme provides technical, business and legal expertise for the development of future energy systems. Students can select from a wide range of elective modules based on their interest.

Career Profile
In-depth technical knowledge in Energy Informatics equips our students with the proactive qualities that underpin leadership/management positions, and can lead to high-flying careers. Our graduates will not only work at energy suppliers and network operators, but also in associated sectors. Even energy-intensive industries can benefit from their expertise. Other fields include the creation, planning and implementation of IT systems for Smart Grids, Smart Cities, e-mobility and industrial plants.

Focus of Studies
>> Software Systems (SCADA, Head-End and Meter Data Management Systems)
>> IT Security
>> Cloud Computing/Big Data
>> Communication Technology (Powerline, Radio Frequency)
>> Home and Building Automation
>> Systems Engineering
>> International Project Management
>> International Energy Markets and Energy Law
>> Processes and Process Modelling
>> Energy Generation, Distribution, Storage and Consumers
>> Smart Grid Field Components (Meters, Gateways, Load Management)
>> Electromobility
>> Standardisation

Practice and Research
Practical know-how is critical in this demanding field, therefore our curriculum was developed with leading IT companies in the Smart Grid business. R&D activities focus on providing intelligent energy services and investigating scalability aspects in a Smart Grid environment under given constraints (data rate, security, costs etc.).

Study Abroad
Our flexible curriculum allows out-of-country studies. This degree programme is taught in English, thus also equipping our students with the language and intercultural skills necessary to succeed in the increasingly internationally-oriented energy industry.

Did You Know that …
... most European countries have already started their Smart Metering roll-outs or will start them very soon? Or that Smart Meters are only one small aspect within the grid when it comes to the transformation into Smart Grids?

Contact
Head of Studies: Prof. Dr. Christoph Schaffer
Programme Administrator: Mag. Katharina Berger-Holzer
Phone: +43 5 0804 22800, Email: eni@fh-hagenberg.at
Interactive Media

Full-time, 4 Semesters (120 ECTS)

Degree: Master of Science in Engineering (MSc)
Admission Requirements: Completed Bachelor's degree or similar qualification in a relevant subject, with a minimum of 60 ECTS points in IT-related subjects; sound knowledge of English

The Interactive Media Master's degree programme offers a wide range of subjects focusing on the technology and engineering behind interactive media, computer games and cutting-edge online media. Students acquire the skills necessary to take on innovative and complex projects in the media industry. The degree programme features both a substantial project component and an extensive selection of specialised courses that couple theoretical concepts with practical experience at the highest level. In addition to providing an industry-oriented education, this degree programme aims to develop students’ communication skills and refine their systematic approaches to problem-solving.

Career Profile

Graduates are well-rounded media professionals who have acquired substantial project experience and in-depth knowledge in one or more of the following areas of specialisation: online media, games and interactive media. They possess both the conceptual and design skills necessary for developing innovative media projects and the technical skills to contribute to their subsequent implementation. Their specific qualifications make them sought-after employees in global contexts, such as in the fields of game development and multimedia authoring/production (presentations, shows, museums, kiosk systems), web-based information systems and applications, large-scale online publishing, content management and document management, multimedia databases, electronic archives, digital asset management, cooperative workflow solutions and streaming media services.

Focus of Studies

The core subjects, which can be augmented by a selection of elective courses, are:

>> Interactive Media: Human-computer interaction, computer vision, speech processing, cooperative work environments, interactive installations
>> Games: Game development, game engines, real-time graphics, physics simulation, artificial intelligence, multi-player games, audio
>> Online Media: Advanced web publishing, rich internet applications, semantic web services/applications

Did You Know that …

... our Media Interaction Lab was awarded a Google Research Award for research into wearables? And that many of our graduates are employed at leading technology companies such as Microsoft, Google and Runtastic?

Practice and Research

Our Media Interaction Lab (MIL) is one of Austria’s leading research labs in the field of human-computer interaction. Activities focus on exploring novel interface technologies, developing new interaction techniques and evaluating user interfaces. MIL combines research and education, providing students with a project-based learning environment, and internship as well as PhD opportunities. Our research group Playful Interactive Environments (PIE) investigates playful forms of interaction (e.g. eye- and body-tracking), the use of intuitive gamification mechanisms to encourage behavioral patterns and the perception of computer-generated characters.

Study Abroad

Being taught in English, this degree programme also attracts applicants from non-German speaking countries and equips students with the language and intercultural skills necessary to succeed in the global media industry. A semester can be spent at one of our many partner universities abroad, e.g. in Britain, Sweden or Norway.

Contact

Head of Studies: Dr. Wilhelm Burger
Programme Coordinator: Mag. Volker Christian
Programme Administrator: Elisabeth Mitterbauer
Phone: +43 50804 22121, Email: im@fh-hagenberg.at

www.fh-ooe.at/im
Focus of Studies

All relevant areas of mobile computing are covered in this degree programme – software development, communication technologies and telecommunication engineering. It allows specialisation in several of the following areas:

> Mobile Communication,
> Ubiquitous Computing,
> Mobile Infotainment,
> Mobile Games,
> Mobile Software Techniques,
> Automotive Computing,
> Ambient Assisted Living/Mobile Health,
> Smart Energy,
> Logistics

Practice and Research

From the start of their first semester students begin to work on practical projects. Topics chosen for this work can reflect the student’s personal interests. Our research focuses e.g. on novel interaction techniques, applications and services for mobile devices, user-friendly secure mobile environments, sports and health applications.

Study Abroad

Our flexible curriculum allows out-of-country studies. Destinations for our students have been Toronto, Melbourne and Helsinki, to name only a few. This degree programme is taught in English, thus also equipping our students with the language and intercultural skills necessary to succeed in the global IT industry.

Did You Know that …

... graduates of this degree programme are the founders of the successful sports app business Runtastic? And that other alumni developed the software for the world’s first Full-HD 360° action camera called V.360?

Contact

Head of Studies: Prof. Dr. Christoph Schaffer
Programme Administrator: Mag. Katharina Berger-Holzer
Phone: +43 5 0804 22800, Email: mc@fh-hagenberg.at
Medical Engineering
Full-time, 4 Semesters (120 ECTS)

Degree:
Dipl.-Ing.

Admission Requirements:
Graduates of technical-scientific Bachelor’s/Diploma’s degree in engineering with 180 ECTS points or more (for more specific details see our website)

The fundamentals of our degree programme are scientific, professional and social skills. Our graduates are prepared to develop and place medical products for and within international markets.

Prof. Dr. Martin Zauner
Head of Studies

The Master’s degree programme Medical Engineering is an extension and a deepening of the Bachelor’s degree programme Medical Engineering. It enables its students to acquire profound knowledge of Medical Engineering that is primarily focused on medical device and rehabilitation technology and oriented towards the practical needs of the profession. Students focus on 3 out of 4 areas of choice (electronics, biomechanics, medical device software, materials technology). These are enhanced by the obligatory module ‘Medical Technology Selected Subjects’, the module ‘Medical Systems Engineering and Project’. Academic education is enhanced by project work and a Master’s thesis, both of which require students to apply their knowledge and skills in a new environment. As part of the final diploma examination, students have to present their conclusions underpinned by theoretical knowledge and their own rationale. Graduates are qualified as engineers with the ability to develop medical and rehabilitation devices within the regulatory framework of European markets and the ability to consider FDA regulations.

Career Profile

The scientifically founded professional knowledge in connection with applied engineering skills prepares graduates for leadership functions in larger projects or for an academic career as a researcher. Medical engineers are employed in development, engineering, production and fields of regulatory affairs, for quality control, in product management and also as qualified advisors for technical sales and experts for product approval. Graduates can apply their knowledge immediately.

Focus of Studies

>> Applied Mathematics, Statistics and Clinical Trials
>> Medicine for Medical Engineers
>> Medical Diagnosis Systems
>> Medical Therapeutical Systems
>> Elective Module Electronics, Biomechanics, Medical Device Software or Materials Technology (3 out of 4)
>> Regulatory Affairs
>> Medical Systems Engineering
>> Projectwork and Masterthesis

Practice and Research

The Medical Engineering sector is very innovative. Research and Development carry high importance. Medical simulation systems, motion measurements and prosthetics, medical microscopy and biomedical life sciences are our research focuses. Research and its practical applications are promoted in the Master’s project and Master’s theses.

Study Abroad

Students can participate in international activities (e.g. in Europa, USA or Asia). Projects abroad, conferences with international speakers or participation in internationals fairs – the possibilities are manifold.

Did You Know that …

... Medical Engineering belongs to the most innovative technologies of the future? That it provides products which help to save other human beings and to improve the quality of their lives? That the newly established Medical School in Linz will stimulate the development of the Medical Engineering sector in Upper Austria?

Contact

Head of Studies: Prof. Dr. Martin Zauner
Programme Administrator: Elisabeth Differenz, Gabriele Rosenthaler
Phone: +43 5 0804 52100, Email: mme@fh-linz.at

www.fh-ooe.at/mme
WINTER IN AUSTRIA
Global Sales and Marketing

Full-time, 6 Semesters (180 ECTS)

Degree: Bachelor of Arts in Business (BA)
Internship: In 2 parts – ten weeks in total
Subsequent Master's Degree Programme: Global Sales and Marketing

The globalisation of the world economy creates interesting challenges and opportunities to work in the export sector or go abroad and experience another culture for a few years. Austria's export economy has succeeded in setting international standards in many fields, notably industrial plants, machinery and technical goods. These global operations generate a great demand for suitably qualified sales and marketing personnel. The Bachelor's degree programme Global Sales and Marketing is designed to provide its students with all the skills they need to meet this demand and is held entirely in English.

Focus of Studies

> Practical and application-oriented tuition in sales (management) for industrial customers
> B2B marketing to be able to sell products and services to companies world-wide
> Important qualifications in order to work in the export business & international trade
> Intercultural management to deal with cultural differences around the globe
> Technical basics that enable the students to work in a B2B environment
> Three foreign languages taught by native speakers
> Social skills needed for dealing with top customers and being successful in foreign countries

Study Abroad

During the compulsory SEMESTER ABROAD the students have the opportunity to study at one of our 100 partner universities (third semester). The entire degree programme of Global Sales and Marketing is taught in English and native speakers provide intensive language instruction in two further foreign languages and give insights into their background cultures.

Practice and Research

"The only way to learn something is to do it". Therefore the students are provided with two internships (abroad or at home) and practical projects with our partners in the export industry. The 'Cross-Cultural Management and Emerging Markets Center' of the degree programme is dealing with research projects concerning cross-cultural management for business.

Did You Know that ...

... Austria's export rate is higher than 50%? This degree programme gives you important qualifications to work in the export business and international trade. Furthermore, the top 30% of our students can obtain a double degree at one of our seven partner universities in Russia, Finland, Poland, Czech Republic, Georgia, Colombia and Canada.

Contact

Head of Studies: Prof. DI Dr. Margarethe Überwimmer
Vice Head of Studies: Prof. Mag. Robert Fürereder
Programme Administrator: Verena Gerstmayr
Phone: +43 5 0804 33500, Email: gsm@fh-steyr.at
Global Sales and Marketing
Full-time/Part-time, 4 Semesters (120 ECTS)

Degree: Master of Arts in Business (MA)
Admission Requirements: Completed Bachelor’s or Master’s degree in business administration or similar fields. For details see: www.fh-ooe.at/gsm-master
Mode of Study: full-time (with a time schedule that allows additional part-time work activities) and part-time (Friday afternoon and Saturday + one week of intensive lectures per semester + field trip)

The degree programme offers broad and profound knowledge – from sales to marketing, cross-cultural management and leadership and prepares students for their future tasks in international companies.

Prof. DI Dr. Margarethe Überwimmer
Head of Studies

Austria’s export economy has succeeded in setting international standards in many fields, notably in industrial plants, machinery and technical goods. These global operations generate a high demand for suitably qualified sales and marketing personnel. The geographical focus of the degree programme is on emerging markets.

Career Profile

The Master’s degree programme Global Sales and Marketing equips the students to DEVELOP and MANAGE future sales, sales management and marketing activities for international companies. For such managers, it is essential to be aware of cross-cultural challenges created by the globalisation of the world economy. A typical job description would be a management position in a foreign subsidiary of a European company. This might include the post of product manager, key account manager or marketing and sales manager. In addition, the course offers an excellent basis for entrepreneurs wishing to set up their own company.

Focus of Studies

>> Sales and Sales Management: ability to conceptualize, evaluate, push forward and control strategic sales decisions.
>> B2B Marketing: ability to develop and push forward strategic marketing concepts for investment goods including background challenges of a cross-cultural character.
>> Cross-cultural Sales and Management: profound introduction to cultural differences and similarities around the globe in order to be able to react in a professional way when faced with challenges of this kind.
>> Practical Skills: we connect the complex structure of the scientific background needed with the immediate application in real industrial life, especially in emerging markets.
>> Management/Leadership Skills: a special module with the chance to develop good insights into management and leadership challenges of an international job profile.

Study Abroad

The students have the opportunity to study at one of our 100 partner universities during the second semester – several double degrees are available in the USA, Mexico, Czech Republic, Russia, Columbia, China. A field trip provides further profound cross-cultural insights. The entire degree programme is taught in English and students are free to choose their second foreign language.

Practice and Research

On the basis of current insights from research and teaching our students acquire sound sales and practical expertise. Over 200 domestic and foreign enterprises regularly use and successfully co-operate with the Master’s degree programme.

Did You Know that ...

… with the final degree – Master of Arts in Business (MA) – graduates are qualified to pursue a related doctoral degree at a domestic or foreign university.

Contact
Head of Studies: Prof. DI Dr. Margarethe Überwimmer
Vice Head of Studies: Prof. Mag. Robert Fürereder
Programme Administrator: Sandra Steinfellner
Phone: +43 5 0804 33600, Email: gsm-master@fh-steyr.at
**Electrical Engineering**

Full-time, 6 Semesters (180 ECTS)

<table>
<thead>
<tr>
<th>Degree:</th>
<th>Bachelor of Science in Engineering (BSc)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internship:</td>
<td>International internship for 10 weeks</td>
</tr>
<tr>
<td>Language of Instruction:</td>
<td>English</td>
</tr>
<tr>
<td>Subsequent Master’s Degree Programme:</td>
<td>Electrical Engineering Master (start 2018)</td>
</tr>
</tbody>
</table>

One of the leading trends today is the shift towards environmentally friendly electrical energy supply. This degree programme is focused on the design, operation and production of devices for modern electrical power supply, distribution and transport, as well as power conversion. This covers components for smart grids, renewable energy utilisation, and electric cars. The aim of the Electrical Engineering degree programme is to provide graduates with the skills and know-how required to be able to meet the demands of international electrical energy engineering in future. Our degree programme is highly practical and includes an internship, in addition to the possibility of an exchange semester with one of our worldwide partner universities.

**Career Profile**

The future tasks of our graduates cover the development, manufacturing, maintenance, operation and technical support of devices for electrical energy systems, as well as technical consulting. They will also find themselves in the planning and discovery of new and modern energy supply concepts.

**Profile**

<table>
<thead>
<tr>
<th>Course</th>
<th>Percentage (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical Components and Systems</td>
<td>29</td>
</tr>
<tr>
<td>Integrative Skills</td>
<td>18</td>
</tr>
<tr>
<td>Electrical Engineering</td>
<td>16</td>
</tr>
<tr>
<td>Basics of Engineering and Interdisciplinary Skills</td>
<td>13</td>
</tr>
<tr>
<td>Organisation, Management and Statutory Directives</td>
<td>9</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>8</td>
</tr>
<tr>
<td>Languages</td>
<td>7</td>
</tr>
</tbody>
</table>

**Focus of Studies**

- Fundamentals of electrical engineering and mechanical engineering
- Electrical apparatuses, machines and drives
- Electrical systems for energy transport and distribution
- Modern electrical systems, including Smart Grid technology
- High-voltage engineering
- Power electronics and electrical drives, e.g. for electrical mobility
- Control engineering
- Business and accounting
- Project management, social skills and foreign languages

**Practice and Research**

In addition to the practice-orientated education, R&D plays an important role in this degree programme. A number of students are currently involved in R&D projects, either in form of student projects or as research assistants. Electrical storage systems, PV systems, e-mobility, power electronics, high voltage and high current engineering, switching devices and lightning protection are a few examples of the areas of principle interest.

**Study Abroad**

It is the goal of the degree programme that students become a part of a lifelong network of experts. International partners located all over the world guarantee that talks are held by international lecturers and experts, the possibility of international internships and exchange semesters.

**Did You Know that ...**

... Electrical Energy is THE backbone of a modern society? No other form of energy plays such an important role? With the development of more and more efficient electrical energy supplies, engineers are in high demand. Our graduates are positioned to become members of a network of experts tasked with creating the future of electrical energy supply.

**Contact**

Head of Studies: Prof. DI Dr. Peter Zeller  
Programme Administrator: Mag. Daniela Hochstöger  
Phone: +43 5 0804 43075, Email: sekretariat.ee@fh-wels.at
Automotive Mechatronics and Management

Full-time, 4 Semesters (120 ECTS)

Degree: Master of Science in Engineering (MSc)*
Admission Requirements: Completed Bachelor’s degree (180 ECTS or equivalent) in Electromechanical Engineering, Mechanical Engineering or related subject areas

Innovations in future vehicle generations will originate predominantly in the field of Mechatronics. Alongside engineering performance, cost-and market-orientated aspects are becoming increasingly significant.

Prof. Mag. Dr. Kurt Gaubinger
Head of Studies

Rapid developments in vehicle engineering have led to a merging of the fields of Mechanics, Electronics and Informatics. One cause of this is that vehicles meet customer demands by the optimal interplay of various mechanical and electronic components. Many functions in the areas of comfort, safety and efficiency are only made possible by mechatronic systems. In this context specific expertise in the mechatronic disciplines, combined with social- and business economics competences, will be central requirements of future employees and managers in the motor vehicle industry. Precisely these requirements are the focus of the new Master’s degree programme Automotive Mechatronics and Management.

Career Profile

This international Master’s degree programme meets the demand of the motor vehicle industry for engineers who can combine complex individual components into innovative mechatronic systems with improved or completely new functions and in doing so think and act under consideration of qualitative and cost aspects. The fields of activity of graduates are therefore in the execution and management of mechatronic development projects, in the design and validation of mechatronic vehicle systems or as quality engineers in the field of quality assurance in the product development process.

Did You Know that …

... Mechatronics and vehicle manufacturing are strongpoints of the Upper Austrian economy? This is why the need for highly-qualified graduates in these fields will continue to grow in the future and leading companies in the automotive industry are working closely with this degree programme.

Contact
Head of Studies: Prof. Mag. Dr. Kurt Gaubinger
Programme Administrator: Nadine Morgan
Phone: +43 5 0804 43051, Email: sekretariat.amm@fh-wels.at

Focus of Studies

>> Vehicle Engineering: vehicle components, drive concepts, road performance
>> Vehicle Mechatronics: sensors, actuators, signal preparation, system architecture
>> Vehicle Systems: regulation-, safety- and support systems
>> Vehicle Informatics: communication structure, Car2X communication
>> Quality Management: quality planning, quality assurance, quality management systems
>> Business Economics & Management: innovation, market-oriented management, IPR: Intellectual Property Right, management, controlling, production economics
>> Social Competence: intercultural-, moderation-, leadership competence

Practice and Research

The practice-orientation of this degree programme is guaranteed by close cooperation with companies in the automotive industry. Further, many of the professors and lecturers work in the automotive industry or closely with it. Within the framework of the practical and Master’s projects students work on current projects of the industry.

Study Abroad

This degree programme is taught in English and the target group is a mixture of Austrian and international students. It is therefore inherently international. For all those who wish to gain further international experience, however, there is the possibility to spend the fourth semester at one of our 100 international partner universities.

* The admission for the Master’s degree programme proceeds subject to the completion of the admission requirements and the accreditation through AQ Austria.
Innovation and Product Management

Full-time, 4 Semesters (120 ECTS)

Degree: Master of Science in Engineering (MSc)
Admission Requirements: Completed Bachelor’s degree (180 ECTS or equivalent) with engineering or management background and solid English language skills

Focus of Studies

>> Strategic Innovation and Technology Management: Planning of innovation strategies; management and monitoring of innovation processes, especially at the front end.
>> Trends for Innovation: special topics like sustainability, bionics and rapid prototyping to support innovations.
>> Specialization ‘Product Concept Design’: Developing of products and design concepts; integration of all design-relevant factors in the innovation process.
>> Specialization ‘Development Process Engineering’: sub-system of R&D management, which coordinates planning, managing and controlling.

Practice and Research

From the beginning on students apply their knowledge in industry projects. In intercultural and interdisciplinary teams students work on real world problems for local and international firms. The final thesis will be written for and in a company.

Study Abroad

Innovation and Product Management is an international and interdisciplinary degree programme with students from more than 20 countries. Intercultural aspects and strategies in all disciplines are a cornerstone of the curriculum.

Did You Know that ...

... Innovation and Product Management was the first degree programme taught in English at Wels Campus? Internationalisation is supported through guest lectures by international experts from both, academia and industry. A close cooperation with local industry guarantees up-to-date of the contents and the employability of the graduates.

Career Profile

Graduates of this degree programme are prepared for management positions in technical product development, innovation and design, product management and marketing in international technology companies. Being responsible for high-tech products and services they play a decisive role in the conception and market positioning of technical innovations and thus secure the long-term success of companies. Additionally they possess core competence in strategic R&D and innovation management. They develop sound marketing and design strategies to differentiate their products from those of competitors.

Contact

Head of Studies: Prof. DI. Dr. Michael Rabl MBA
Programme Administrator: Angelika Müller, Agnes Mitterhuber
Phone: +43 5 0804 43040, Email: sekretariat.ipm@fh-wels.at
Sustainable Energy Systems

Full-time, 4 Semesters (120 ECTS)

Degree: Master of Science in Engineering (MSc)
Admission Requirements: Completed Bachelor’s degree in Engineering or technical field; strong English language skills

Focus of Studies

- Interdisciplinary, technical programme with focus on: energy utilisation of sustainable energy resources, energy storage, energy distribution, energy efficiency and ecology, energy markets, energy management
- Business administration and intercultural management
- International project management and development
- International study groups
- English as language of tuition

Practice and Research

For our students we offer the possibility for a semester abroad at one of our many partner universities worldwide. Furthermore we encourage our students to write their Master’s project in the 3rd semester or their Master’s theses in the 4th semester with a university or a company abroad.

Study Abroad

It is the goal of the degree programme that students will become a part of a lifelong network of experts. International partners distributed all over the whole world guarantee the presence of international lecturers and experts, the possibility of international internships and exchange semesters.

Did You Know that ...

... solar energy is the largest energy resource on the world, even larger than our fossil resources? Utilising wind means to cause the lowest environmental impact. Utilising energy efficiency potentials is the most effective way to save energy, the environment and become independent from other countries.

Career Profile

There is a wide field of career prospects. These include the technical implementation of international projects e.g. the construction of large-scale PV or wind generators and (technical) project management regarding sustainability and energy efficiency for energy systems (in-service behaviour, optimising operations …), energy efficiency procedures (especially for industrial production processes) or energy distribution (renewable energy, energy distribution including smart grids, energy storage). Possible jobs would be among other things: engineer for energy systems (design, construction, maintenance and retrofit), technical consultant, expert for project financing and management, technical adviser for banks and insurance companies.

Contact

Head of Studies: Prof. DI Dr. Peter Zeller
Programme Administrator: Mag. Daniela Hochstöger
Phone: +43 5 0804 43075, Email: sekretariat.ses@fh-wels.at
# Programmes in German

Degree programmes taught in German are open for German-speaking students (B2) as well as for graduates of our German Preparation Programme.

The following 28 Bachelor’s and 23 Master’s degree programmes are taught in German and are therefore presented in abbreviated form in this study guide.
Communications and Knowledge Media

**Degree:** Bachelor of Arts in Social Sciences (BA) | [www.fh-ooe.at/kwm](http://www.fh-ooe.at/kwm)

The Internet offers endless possibilities for communication, networking and collaboration – anywhere, anytime, whether for personal or professional purposes. The big challenge facing companies – as well as individual users – is choosing which of the huge range of technologies and platforms suits the user best. Our full-time, interdisciplinary degree programme focuses on the technical and creative imperatives for the most efficient exploitation of new media. Students will be equipped with the technical and creative skills, including knowledge of the social sciences, to act as experts on digital communications. Graduates with such expertise are highly sought after in a wide range of areas, including corporate communications, online marketing, media and web design, web programming, further education and e-learning.

Hardware-Software-Design

**Degree:** Bachelor of Science in Engineering (BSc) | [www.fh-ooe.at/hsd](http://www.fh-ooe.at/hsd)

What do smartphones, modern cars and robots have in common? They are ‘smart’ thanks to in-built computer technology that delivers functions once considered the stuff of sci-fi movies. Such smart computers depend on the perfect combination of dedicated software and hardware. This key symbiosis is the chief focus of our degree programme in Hardware-Software-Design. This full-time degree programme offers a thorough grounding in informatics, IT and electronics. Students will develop competence in the design and creation of embedded systems, software application and chip design.

Media Technology and Design

**Degree:** Bachelor of Science in Engineering (BSc) | [www.fh-ooe.at/mtd](http://www.fh-ooe.at/mtd)

Exploiting the unlimited opportunities in the field of digital media requires mastery of creative design, smart contents, and fluency with the latest technology. This unique, full-time degree programme provides you with the technical expertise as well as the design and communication skills to take on any challenge in your chosen area – be it on the Web, in multimedia, 3D modelling, animation, computer games, audio & video production, or cross-publishing. You will acquire a solid grounding in the theory and practice of digital media. Hands-on experience with professional equipment will provide you with the technical and creative skills for implementing innovative and exciting media projects.

Medical and Bioinformatics

**Degree:** Bachelor of Science in Engineering (BSc) | [www.fh-ooe.at/mbi](http://www.fh-ooe.at/mbi)

Information technology today covers all aspects of the best healthcare provision. It has a crucial role in identifying the causes of illness, developing new drugs, and improving medical interventions. Graduates of our full-time degree programme will be equipped to develop and deploy software medical doctors and molecular biologists need to fulfill highly complex tasks. Expertise in informatics, data science, life sciences etc. is highly sought after worldwide, not only in the health sector, the pharmaceutical industry and molecular-biological research, but also across the IT sector. After their first year, students choose to specialise in either medical informatics or bioinformatics.

Mobile Computing

**Degree:** Bachelor of Science in Engineering (BSc) | [www.fh-ooe.at/mc](http://www.fh-ooe.at/mc)

Smartphones, smartwatches, tablets and apps are an integral part of our daily lives. They make countless routines easier and also more entertaining. Mobile computing is the technology of future and will change the way we use technological devices. Voice and gesture control systems are today in common use, just like social media. This is just the beginning of a sea change, in which mobile devices, communications and apps are set to play a key role alongside new business models. Our full-time Mobile Computing degree programme will enable you to play an active part in this revolution. Students will acquire in-depth knowledge of communications technology, informatics and application development for mobile devices. You’ll be equipped to devise innovative services and apps and professionally manage projects in the field.

Secure Information Systems

**Degree:** Bachelor of Science in Engineering (BSc) | [www.fh-ooe.at/sib](http://www.fh-ooe.at/sib)

The exchange of information, just like the amount of data and its accessibility anywhere, anytime, is matched by the exponential growth in modern technology. Experts qualified to meet the challenges of cybercrime, hacking and data theft are in increasing demand. This full-time degree programme will equip you to meet this demand, with its focus on full spectrum security protocols associated with the operation of computer systems and networks as well as mainstream data transfer, storage and archiving. Compulsory elective modules will give students the opportunity to further specialise in network, data and systems security.
**Software Engineering**  
*Degree: Bachelor of Science in Engineering (BSc) | www.fh-ooe.at/se*

Software is at the heart of information technology (IT), and all applications – whether for mobile phones, PCs or even modern cars – depend on instructions based on specially written programmes. This Bachelor’s degree programme provides a thorough grounding in the theory and practice of sophisticated software development, including relevant tools, methodologies, and teamwork and networking skills. Graduates will be equipped to not only develop but also implement, evaluate and adapt software at the cutting edge of all areas of application. After their first year, full-time students can choose between two key areas in which to specialise: Business Software or Web Engineering. Part-time students specialise in Web Engineering.

**Biomedical Informatics**  
*Degree: Master of Science in Engineering (MSc) | www.fh-ooe.at/bmi*

Dedicated software is a key component in many health-related areas, such as DNA analysis, cancer research, virtual surgery and data mining in health databases. Applications in these areas require expertise in biomedical informatics, especially large-scale software architectures. Our full-time Master’s degree programme majors on biomedical know-how and software development while also expanding methodological and scientific skills. It equips students with this unique combination of skills, qualifying them to take on lead positions in the healthcare sector, molecular-biological and pharmaceutical research, and IT in general. Students can choose to specialise further in medical informatics or bioinformatics by selecting from a range of elective modules.

**Communications and Knowledge Media**  
*Degree: Master of Arts in Social Sciences (MA) | www.fh-ooe.at/kwm-ma*

Online media is now central to corporate communication strategies and life-long learning, and keeping abreast of Internet development is of crucial importance. Meeting the challenge of web technological innovation is essential for command of the global knowledge society, and demands not only intercultural competence but also expertise in knowledge management. Our full-time, interdisciplinary Master’s degree programme equips students with exactly that mix of skills, combining social sciences, media studies, web design and web programming. A wide range of elective modules allows further specialisation in the following areas: communications, web, learning and/or organisations.

**Digital Arts**  
*Degree: Master of Arts in Arts and Design (MA) | www.fh-ooe.at/da*

This full-time Master’s degree programme builds on a student’s creative, design and technical skills with our production and design-orientated programme that focuses on computer animation, audio/video, and games. You will expand further your ability to perform innovative and professional work across the media production industry. Our degree programme also seeks to build project management skills and develop a systematic approach to conceptualising and leading media projects by focusing on practice-oriented project work modules that combine state-of-the-art theory and practice. Students can furthermore choose from a broad range of in-depth modules for further specialisation.

**Embedded Systems Design**  
*Degree: Master of Science in Engineering (MSc) | www.fh-ooe.at/esd*

Embedded Systems are an integral part of many modern-day devices, from smartphones to cars and robots. Without them, there would also be no smart homes and smart cities. Developing those complex, integrated computers requires a broad set of skills: expertise in the development of hardware and software, sensors, and systems networking. Our full-time, interdisciplinary Master’s degree programme in Embedded Systems Design covers all those aspects. Students choose two of the following three specialisation pathways: System-on-Chip Design, Embedded Computing (Embedded Systems, Cyber-Physical Systems), and Systems & Signals. They will also be able to develop teamwork, leadership and project management skills, and select from a wide range of elective modules for further specialisation.

**Human-Centered Computing**  
*Degree: Master of Science in Engineering (MSc) | www.fh-ooe.at/hcc*

IT systems of the future will need to instinctively respond to user needs and competencies. This cutting-edge, part-time degree programme gives graduates of information technology studies the chance to refine their skills in developing more accessible and user-friendly technologies. The interdisciplinary curriculum draws primarily on social sciences and IT, including areas such as interaction design, natural-user interface development, image processing, as well as prototyping. Graduates will learn problem-solving and full-spectrum consultancy skills that are key to the conceptualisation and deployment of practical applications in this dynamic field.
Information Engineering and Management

Degree: Master of Science in Engineering (MSc) | www.fh-ooe.at/iem

The increasing complexity of information technology is making unceasing demands on data control and co-ordination. Planning, developing and implementing sophisticated systems to meet company targets is a serious challenge for IT managers. Access to data anywhere, anytime, common usage of information and user-friendliness are prime objectives. This requires experts with software development, business intelligence and analytical IT skills as well as know-how in management, law and team leadership. This part-time Master’s degree programme equips students with exactly these skills and is particularly suitable for people with a first degree in information technology, who aim at taking up management positions in the IT business.

Information Security Management

Degree: Master of Arts in Business (MA) | www.fh-ooe.at/ism

The ever-growing multiplication of diffuse data and IT systems pose serious security challenges which can only be addressed by a holistic approach to security management protocols. Likewise, applications in the area of social networks or cloud computing and ‘always-on’ technologies need to be increasingly taken into account when planning and implementing information and communications systems. This new, part-time Master’s degree will provide students with the expertise to deploy the interdisciplinary approach that is a key element in formulating and implementing effective management strategies to deal with the imperatives of international information security on a global scale.

Software Engineering

Degree: Master of Science of Engineering (MSc) | www.fh-ooe.at/se-ma

Most devices that shape our everyday lives – from computers and smartphones to coffeemakers and jet planes – depend on a guiding software code. This full-time degree programme takes graduates in practical and applied informatics to the next level. You will expand expertise in developing, implementing and evaluating high-performance software to meet the demand for an ever-expanding range of applications. Creation of high-end software is akin to building a house: you need both the skills of a craftsperson and the inspiration of an architect. This symbiotic combination is what defines the software architect. Our Master’s degree programme will empower students to become exactly that.

Secure Information Systems

Degree: Master of Science in Engineering (MSc) | www.fh-ooe.at/sim

Trust and security are the key components of the Information Society. Security experts with up-to-date know-how across IT, management, and law are in great demand. Especially in view of the need for enhanced security as rapid technical advances pose greater threats to the safety of data transfer, storage, and archiving. Our full-time degree programme majors on in-depth study and specialisation across IT security. Topics include information management, digital identities, secure software engineering, network security, law, and ethics. The main focus of this degree programme is on practical training as well as independent and systematic work with an emphasis on the development of communication skills.
#SUMMER
IN AUSTRIA
Medical Engineering
Degree: Bachelor of Science in Engineering (BSc) | www.fh-ooe.at/mt

Our degree programme in Medical Engineering provides students with a solid background in medical device and rehabilitation technology. Computer tomographers, prostheses or pacemakers – these common medical products and many others – require the type of technical interest which can be honed over the course of our degree programme and turned into applicable skills. Beside our focus on scientific engineering and mechatronics, our degree programme also introduces students to the relevant medical knowledge as well as to the process of approving medical products. An internship and a study project offer practical experience. It is possible to focus on specific interests by choosing from a range of electives. Our graduates are experts in medical engineering and work in a large variety of interesting professional areas.

Public Management
Degree: Bachelor of Arts in Business (BA) | www.fh-ooe.at/puma

Graduates of the Public Management Bachelor’s degree programme are qualified as management experts in the area of public services. The core of the studies is the acquisition of the in-depth economic and legal qualifications that are required for the effective and efficient provision of services in the public sector. The degree programme gives students comprehensive knowledge of institutional features, ways of doing things and decision-making processes as well as the specific working environments of the public and non-profit sectors. Emphasis is also put on building students’ soft skills.

Social Services Management
Degree: Bachelor of Arts in Business (BA) | www.fh-ooe.at/soma

Social Services Managers are specialists in the management of social- and healthcare services. The core of this degree programme with a Bachelor’s degree is the acquisition of thorough management competencies with emphasis on the requirements of the social economy. The economic, legal, and social framework of social services is an additional focus of the degree programme. Basic knowledge of the needs of the various target groups plays an important role: the elderly, the disabled, people needing psychosocial support, children, adolescents, or society’s marginalised groups. Emphasis is also put on building students’ soft skills.

Social Work
Degree: Bachelor of Arts in Social Sciences (BA) | www.fh-ooe.at/so

Professional social work fosters social change, social development and social cohesion as well as the empowerment and liberation of individuals. Principles such as social justice, human rights, societal responsibility and respect for diversity are elementary in social work. Social work assists people in meeting the challenges of life by applying a variety of scientific methods and theories. The Bachelor’s degree programme in social work offers interdisciplinary training for future experts, who will be able to counsel, accompany and support service users, as well as plan aid processes. Our degree programme ensures a practice-oriented education following the motto "Learning how to help effectively!".

Healthcare, Social Services, and Public Management
Degree: Master of Arts in Business (MA) | www.fh-ooe.at/gsp

The degree programme provides personal competence in leadership and competencies in strategic decision-making and in the operational steering of enterprises. Innovative thinking and putting innovation into practice as well as the responsible use of an institution’s or an enterprise’s resources are also important focal points of the studies. These pivotal competencies that are common to all three Master’s degree programme will be complemented by specific expertise in the fields of healthcare management, social services management and public management.

Social Work
Degree: Master of Arts in Social Sciences (MA) | www.fh-ooe.at/mso

The degree programme offers scientific and vocational/professional training with a special focus on intercultural competence. This is especially important in connection with Austria’s demographics, which are strongly influenced by migration. Social workers encounter clients with migration background in all their fields of activity. Intercultural competence is, therefore, a cross-sectional type of competence and not solely an additional qualification relevant for employees in migration-specific service institutions.
Financial success has always been central to entrepreneurial activities. Yet never before has know-how in the field of finance been as decisive a success factor as it is today: identifying earnings potential, optimising cost structures, evaluating investments, analysing end results, obtaining tax benefits, developing strategies, compiling business plans, recognising financial risks or following developments on the stock exchange: graduates are at the focus of entrepreneurial decisions and have the financial situation firmly under control.

International Logistics management
Degree: Bachelor of Arts in Business (BA) | www.fh-ooe.at/ilm

Design from Italy, raw materials from all over the world, manufacturing in Asia and customers in Europe and the USA. Logistics experts create and optimise the flow of materials and goods all over the globe. They are responsible for the stock in the warehouse, the availability of goods in the shop and for the utilisation of transport capacities. They therefore make an essential contribution to the success of an enterprise. The degree programme ‘International Logistics Management’ provides the necessary skills as well as the certainty of being successful in a dynamic environment on a long term basis. Logistics has a future and provides job security.

Marketing and Electronic Business
Degree: Bachelor of Arts in Business (BA) | www.fh-ooe.at/meb

The Internet is constantly confronting companies with new challenges. Consumer behaviour is changing, pressure from rising costs and increasing competition increase the use of the Internet in the B2B-sector. Companies have to react to these challenges. In order to do so they require comprehensively trained staff, with a combination of competencies in the Internet, marketing and management. This degree programme offers an interdisciplinary training in economics, which is tailored to meet the challenges of the digital world.

Process Management in Health Care
Degree: Bachelor of Arts in Business (BA) | www.fh-ooe.at/pmg

In the health care sector more and more entrepreneurial aspects are playing a central role besides purely medical fields. This is because an increasing demand for quality, the trend of costs and competition make it necessary to act with a long-term and economic orientation even in this field. Process and project management make it possible to standardise and further develop quality and processes procedures in health care establishments, hospitals, medical technology and pharmaceutical companies as well as in all businesses in this sector. The Bachelor’s degree programme Process Management in Health Care devotes itself to these requirements and trains students for managerial roles in the health sector.

Production and Management
Degree: Bachelor of Science in Engineering (BSc) | www.fh-ooe.at/pmt

Who is responsible for the optimum production of smartphones in Korea, sports shoes in China, tablets in the USA or motorcycles in Austria? Manufacturing plants need specially trained graduates with technical and economic know-how. They take on core tasks in various fields and gradually take on managerial responsibilities. The degree programme equips its graduates with precisely these qualifications. They understand business procedures and the fields purchasing, product development, manufacturing, assembly, controlling and management. Thanks to the interdisciplinary training all career opportunities with managerial tasks in manufacturing and manufacturing-related companies are open to them – ideal preparation for entry to companies that operate internationally.

Accounting, Controlling and Financial Management
Degree: Master of Arts in Business (MA) | www.fh-ooe.at/crf-master

Never before has financial know-how been such a decisive success factor. Finance managers are at the centre of business decision making. To do this responsibility justice, they need to not only have financial expertise but also strategic abilities, business knowledge and leadership qualities on an international level. This Master’s degree programme is the admission ticket to a career in the financial domain and/or to managerial posts with a high degree of financial responsibility.
**Digital Business Management**

*Degree: Master of Science in Digital Business Management (MSc) | www.fh-ooe.at/dbm*

Digital media and technologies have a strong influence on our business world and our society. They are change competition in digital business and require new, innovative business models. Digital Business Management, the first Master’s degree programme offered by a university of applied sciences in cooperation with a traditional university looks at this dynamic competitive environment, influenced as it is by lasting digitalisation of business processes, new entrepreneurship, global markets, interculturality, the increasing importance of intra-channel marketing measures and interconnectedness.

**Operations Management**

*Degree: Master of Science in Engineering (MSc) | www.fh-ooe.at/omt*

In a dynamic, global economy, it is those enterprises that have an efficient and customer-oriented approach to production that are successful. This means they rely on executives, who develop the appropriate strategies, who plan and control production, optimise processes and carry out projects successfully with their team. The Master’s degree programme ‘Operations Management (OMT)’ provides students with a forward-looking management education for this purpose. Students acquire both leadership skills and expertise in the fields of production and ERP.

**Supply Chain Management**

*Degree: Master of Arts in Business (MA) | www.fh-ooe.at/scm*

In our internationally networked society and economy cooperation of partners throughout the value chain is of fundamental importance. This creates the challenge of cooperating in the form of enterprise networks. Supply Chain Management therefore becomes the indispensable backbone of the entire economy. This degree programme qualifies its graduates to organise their departments or a whole company according to new market conditions and demands, to find solutions of a new kind and thus make a significant contribution to the success of a company.
**Automation Engineering**

**Degree:** Bachelor of Science in Engineering (BSc) | [www.fh-ooe.at/at](http://www.fh-ooe.at/at)

Automation Engineers develop, optimise and automate equipment. Or in other words: by means of sensors and special software they cause machines to perform intelligently. For example, they ensure cash machines dispense the right amount of banknotes, engines are high-precision and airbags are sure to open in a crash. Eco-engineers develop environmentally-optimised solutions for production plants, electric vehicles or solar- and wind power stations. Wels students recently invented Austria’s first pizza dispensing machine. They also recently programmed a regulation system for the hybrid drive of the BRP CanAm Spyder, a guidance system for single-track railways.

**Bio- and Environmental Technology**

**Degree:** Bachelor of Science in Engineering (BSc) | [www.fh-ooe.at/but](http://www.fh-ooe.at/but)

The Bio- and Environmental Technology degree programme unites chemistry and biology with the engineering sciences of biotechnology and environmental technology. The combination of Biotechnology and Environmental Technology offers a unique possibility to study two future technologies simultaneously. Biotechnologists work on the engineering applications of biology. They produce medicines, biological fertilizers, biofuels and biogas. Biotechnology is very important in medicine for the regeneration of tissue, the treatment of infections or the diagnosis of illnesses. Environmental Technologists purify waste water or air, clean up contaminated sites and reduce current and future pollution in their planning of industrial plants.

**Civil Engineering**

**Degree:** Bachelor of Science in Engineering (BSc) | [www.fh-ooe.at/bi](http://www.fh-ooe.at/bi)

Civil Engineers are experts on the subject of buildings, from planning to construction, renovation to demolition. Civil Engineers are in demand: they plan, design, perform specific calculations and coordinate as construction team leaders. In contrast to the architect, for whom functionality and design are in the foreground, the civil engineer learns to evaluate his ideas mathematically in the areas of safety, functionality and costs. Using construction measurements and knowledge of building automation, civil engineers optimise new and existing building stock.

**Composites and Lightweight Construction**

**Degree:** Bachelor of Science in Engineering (BSc) | [www.fh-ooe.at/lcw](http://www.fh-ooe.at/lcw)

In view of rising fuel and energy costs and the carbon dioxide problem, motor vehicles and aircraft must use less fuel in future. The rotor blades of wind turbines, various sports equipment such as tennis rackets, skis or Formula 1 cars (fibre-carbon-monocoque) must also be lighter but at the same time measure up to the highest safety standards. Lightweight construction will be the central concern in industry in the future. Everywhere where material is moved in large quantities e.g. in robotics or plant construction, lightweight construction developments will play a role in order to save costs. The job prospects for graduates in this field are commensurately promising.

**Eco-Energy Engineering**

**Degree:** Bachelor of Science in Engineering (BSc) | [www.fh-ooe.at/oet](http://www.fh-ooe.at/oet)

Energy consumption is rising worldwide. Sustainability is the key in the future, especially when it’s a matter of the use and consumption of energy. This degree programme is all about the efficient and sustainable production, storage and use of energy (for electricity supply and heating). Photovoltaics, solar heat, hydro- and wind power, biomass and the improvement of the efficiency of industrial processes, production plants and buildings are the focus of the degree programme. Ecological, energy-efficient building, heating and cooling complete the fields of study.

**Food Technology and Nutrition**

**Degree:** Bachelor of Science in Engineering (BSc) | [www.fh-ooe.at/lte](http://www.fh-ooe.at/lte)

In the degree programme Food Technology and Nutrition students learn the technologies of food production and the related required quality assurance. They learn about the many substances food consists of and their effects on health. The combination in this degree programme of food production and investigation, nutrition, law and quality management is unique.
Innovation Engineering and Management

Degree: Bachelor of Science in Engineering (BSc) | www.fh-ooe.at/ipm

New products don’t happen only by chance or flashes of genius. Innovation- and product managers must come up with ideas for products that customers want, evaluate them effectively and then turn them into reality – that’s the key to success! Creative people are needed who work at the interface of marketing, design and technology. Innovation- and product managers turn product ideas into successful cash-cows.

Materials and Process Engineering

Degree: Bachelor of Science in Engineering (BSc) | www.fh-ooe.at/mkt

High-quality aircraft-, vehicle- or engine parts, hard-wearing sports equipment, long-lasting and perfectly-shaped consumer goods all beg the same question: Which materials or combinations of materials are the most suitable? How can such products be produced and their quality and characteristics reliably checked? These are the questions which students of this degree programme must answer. Because choosing the right material is essential for all products: the function, safety, design and longevity are all determined by them. In this practice-orientated and research-focused degree programme students put their knowledge of chemistry and physics into practice and develop metals, composites or plastics and their processing processes further.

Mechanical Engineering

Degree: Bachelor of Science in Engineering (BSc) | www.fh-ooe.at/mb

Mechanical Engineering is ubiquitous in our modern world. We move around in motor vehicles, trains and aircraft. The manufacture of all our utility goods is achieved by means of machines which are in turn designed, developed and optimised by mechanical engineers using the latest methods of calculation, CAD, materials science, thermodynamics and simulation for their creative work. Mechanical Engineering graduates are highly sought-after in industrialised Upper Austria.

Mechatronics and Business Management

Degree: Bachelor of Science in Engineering (BSc) | www.fh-ooe.at/mewi

International companies need more industrial engineers who can solve problems related to engineering and economics. This degree programme is aimed at people in work with the academic standard for university entrance. Suitable HTL graduates with several years of career experience can join the degree programme in Semester 2 or 3. Large parts of the degree programme can be integrated with work.

Process Engineering and Production

Degree: Bachelor of Science in Engineering (BSc) | www.fh-ooe.at/vtp

Process Engineering is the practical application of basic physical and chemical principles for the industrial production of solid, liquid and gaseous substances. Process Engineers work on the plants and processes. They are concerned with physical, chemical and biological steps – they crush, mix, modify, separate and purify raw materials – and thus create new products. They ensure that pills contain enough active ingredients or that the ingredients of yoghurt, lipstick, fuels or building materials are correctly mixed. Their knowledge and competence ensure that production processes are configured in an environmentally-friendly and energy-efficient way.

Product Design and Communication

Degree: Bachelor of Science in Engineering (BSc) | www.fh-ooe.at/pdk

The work of graduates of this degree programme is to design new user-friendly technical products for a target group and to make complex facts easily comprehensible. Alongside a comprehensive education in technical communication students learn how to design mechatronic and software products and sound knowledge of the ergonomics and user-friendliness of technical products. This degree programme offers with its optimal mix of theory and practice both a fundamental education and a higher qualification in an interdisciplinary field.
Automation Engineering
Degree: Master of Science in Engineering (MSc) | www.fh-ooe.at/at-ma

The increased use of automation engineering is one of the reasons for the success of the Austrian economy. Success in the global market and the necessary level of quality and flexibility in production can only be guaranteed by continuous innovation and automation. Automation Engineering graduates can plan, produce and optimise machines, plant, processes, manufacturing and production systems as well as measuring- and regulation devices and systems.

Bio- and Environmental Technology
Degree: Master of Science in Engineering (MSc) | www.fh-ooe.at/but-ma

The Bio-and Environmental Technology Master's degree programme offers students the opportunity to specialise in either biotechnology or environmental science. Central to this degree programme are environmental process engineering and biotechnology, plant planning and plant engineering with (bio-)analytics, the technology of food production and quality management. 'Soft skills' such as language skills, personality, academic and business economics competences enable a smooth transition into work. Independent of their chosen specialisation all graduates gain a common understanding of both of the core technologies our future depends on.

Eco-Energy Engineering
Degree: Master of Science in Engineering (MSc) | www.fh-ooe.at/oet-ma

The Master's degree programme Eco-Energy Engineering offers specialisation in the conversion, distribution and optimised, environmentally-friendly use of energy in industrial plants and buildings. The main areas of emphasis, solar technology and building optimisation, focus on the functionality, planning, construction and operation of plant and buildings. Learning is project-based, ensuring relevance to practice and the opportunity for students to determine their own additional areas of interest.

Food Technology and Nutrition
Degree: Master of Science in Engineering (MSc) | www.fh-ooe.at/lte-ma

Food Technology is an interdisciplinary technological career field with interwoven areas of knowledge. In the foreground are the new- and further development of technologies and products. Conservation of natural resources, process optimisation and efficiency of production are the driving forces in the food industry in order to be able to offer products at competitive prices and of simultaneous high quality.

Materials and Process Engineering
Degree: Master of Science in Engineering (MSc) | www.fh-ooe.at/mkt-ma

The economical, ecological and targeted use of materials and their efficient processing represent an essential competitive factor for Austrian industry. In view of the increasing quality requirements in production and in the use of new materials, more and more experts are required who are familiar with the specific requirements in processing and using these materials. The required quality of many products can only be achieved with appropriate processing technologies and their specific effects on the characteristics of materials. There is no comparable FH degree programme in all of Austria.

Mechanical Engineering
Degree: Diplomingenieur in Mechanical Engineering (Dipl.-Ing.) | www.fh-ooe.at/mb-ma

Mechanical Engineering is a well-established degree programme with many modern trends like simulation, lightweight construction, bionics to name only a few. The development of simultaneously ever lighter but stronger components in motor vehicles, aircraft or satellites, as well as in the manufacturing or plant construction industries, requires the use of sophisticated, innovative methods of calculation, simulation and analysis. The benefits achieved for society and the economy form the sustainable basis of our highly-engineered world.
Mechatronics and Business Management
Degree: Master of Science in Engineering (MSc) | www.fh-ooe.at/mewi-ma

Work in companies of the mechatronics industry has changed enormously because of the increasingly dynamic and complex business environment. The need for industrial engineers with interdisciplinary skills is growing continuously. This degree programme aims to meet this need by offering a higher qualification in selected fields of Mechatronics and Business Economics and also development and management competence.

Plant Construction
Degree: Master of Science in Engineering (MSc) | www.fh-ooe.at/ab

In Upper Austria there are many internationally-successful plant construction companies. Plant constructors, as project managers on plant construction projects, conclude the plant purchase contract under consideration of the framework conditions (costs, deadlines, performance guarantee). They are the interface to the customer or the supplier and coordinate the participating specialist departments and sub-contractors, such as process engineering, design, automation, construction, assembly, accounting or the legal department. Plant constructors work mostly internationally and need excellent English and leadership skills.
German Preparation Programme

Full-time, 2 Semesters

Degree: ÖSD German Certificate B1 and B2 (state-approved examination)

Subsequent Degree Programmes: Any Bachelor’s or Master’s degree programme

Tuition Fees: EUR 1,800 for two semesters (plus accommodation and living costs)

German Language skills are vital for careers in the vast 100 Million people German speaking are of Europe. Studying German at a university level is an important investment into one’s future. This programme has been designed for applicants who do not yet have the necessary German language skills to apply for one of the German-taught degree programmes at the FH Upper Austria. Graduates of this programme have earned the ‘B2 German’ qualification according to the Common European Framework of References for Languages which is required to apply for all German taught degree programmes offered by the FH Upper Austria.

Next to the German language skills, this programme provides a perfect starting point for any of FH Upper Austria’s degree programmes as it connects the student to the study contents in a very early stage. Moreover, the programme provides introductory insights into intercultural issues and social competences required to be successful.

Profile

<table>
<thead>
<tr>
<th>Activity</th>
<th>Figures in per cent, based on semester hours per week</th>
</tr>
</thead>
<tbody>
<tr>
<td>Welcome Day</td>
<td>1</td>
</tr>
<tr>
<td>German B1 (first semester)*</td>
<td>36</td>
</tr>
<tr>
<td>German B2 (second semester)*</td>
<td>36</td>
</tr>
<tr>
<td>Social skills, Cross-Cultural competence</td>
<td>6</td>
</tr>
<tr>
<td>Fieldtrips, Integration workshop, Application training</td>
<td>3</td>
</tr>
<tr>
<td>Optional subject at one of the 4 faculties or from the Study Preparation Programme</td>
<td>18</td>
</tr>
</tbody>
</table>

*Grammar & Writing Skills, Communicative Competence & Reading, Listening Comprehension

Admission Requirements

- ‘A’-Level/High School Diploma (or equivalent)
- A2 German language certificate
- Basic Knowledge of English language

Required Documents

- Curriculum Vitae
- Letter of motivation
- Language certificate
- School leaving certificate*
- University or college certificate (if available)*

*documents have to show the necessary legalisation and must be translated to German or English.

Application Procedure

Applications are made online and can be submitted until 30th April. At this point it will be checked whether or not the admission requirements for the desired subsequent degree programme are met. Both choices of degree programme must therefore be indicated. This does not, however, guarantee a study place for the following year or exempt students from participating in the application procedure of the corresponding degree programme. Applicants who fulfil all admission requirements will be invited to a Skype interview.

Special Feature

In order to prepare students as well as possible for the subsequent Bachelor’s or Master’s degree programme, they are registered external student in a degree programme. This gives students the opportunity to attend lectures from the selected programme thus already becoming familiar with it during the German Preparation Programme.

Contact

Head of Studies: Prof. Mag. Andreas Zehetner
Programme Coordinator: Katharina Schnabl, MA
Programme Administrator: Petra Unterleutner
Phone: +43 5 0804 54111 oder 54113, Email: petra.unterleutner@fh-ooe.at
Softwarepark Hagenberg
The Austrian Technology Park for Software

Softwarepark Hagenberg provides a close synergy of business, research, and education – 70 companies, 12 research institutes, and 23 educational programs (University of Applied Sciences Upper Austria, Johannes Kepler University Linz, and an upper secondary school). Students gain insights into companies and research already early during their studies by daily contacts with the different partners at Softwarepark Hagenberg.

Supporting the students is a big concern for all partners at Softwarepark Hagenberg.

Services for the students at Softwarepark Hagenberg:

- Internal distribution of jobs / job requests (holiday and sideline jobs, internships, and jobs for graduates)
- Softwarepark tour for freshmen
- Networking events
- Softwarepark office provides an interface to companies and research institutes
- Co-working space for company founders
- National and international events – assist, contribute, present your own work, establish contacts...

Softwarepark Hagenberg
Hauptstraße 90, A-4232 Hagenberg
+43 7236-33430
office@softwarepark-hagenberg.com
www.softwarepark-hagenberg.com