

Plant Construction Management

Springboard into the world of international project business!

Lead and manage international plant construction projects, coordinate multinational teams and become a sought-after expert in the dynamic project business. As a project manager, you are the leading interface between customer and suppliers who realize complete or partial plants. Whether planning, automation, process engineering, procurement, transportation, assembly or the legal department – you ensure that every cog in the machine meshes efficiently. Your mission: to implement the scope of supply and services stipulated in the plant construction contract in a targeted manner while adhering to costs, deadlines and performance guarantees. And how? By studying a mix of engineering, business administration and business law specially tailored to the international project business, so that as a future project manager you can realize the plant construction projects of tomorrow.

Study focus

Students learn the technical and economic-legal aspects of the plant construction business with a special focus on project management. What's more, they acquire the skills they need to coordinate and lead multinational (project) teams and lead them to project success.

- **Plant construction:** Planning & construction of process plants
Digital Construction, concrete and steel construction, piping, insulation and corrosion protection, infrastructure, automation technology, plant safety, design and welding of components in plant engineering projects, sustainable energy systems
- **Project execution:** Technical procurement, transport technology to site, erection & assembly construction site management, plant commissioning & acceptance
- **Project management:** (Multi)project management, Project controlling, Scheduling & schedule control (MS Project), Cost planning & control, Project monitoring, Project Risk Management, Project financing
- **Business Law:** International contract law, drafting & evaluation contracts, contract- and claim Management, change order management
- **Project cases:** Case studies and practical cases from (real) projects
- **Social skills:** Englisch, Intercultural communication & teamwork, leadership

Degree

- Diplom-Ingenieur/Diplom-Ingenieurin für technisch-wissenschaftliche Berufe (DI*in oder Dipl.-Ing.*in)
- Diploma is equivalent to degree Master of Science in Engineering

Studiendauer

- 4 Semester (120 ECTS)

Admission Requirements

- Completed Bachelor's degree (180 ECTS or equivalent) in technical and economics subjects

Application

- Online, details & deadline on application.fh-ooe.at

Admission Procedure

- Online application, MS Teams interview with pre-selected candidates

Recognition of verified knowledge

- Crediting of relevant courses is possible

Mode of study

- Full-time
- Language of tuition: English
- Classes from mid september to mid July
- Thursday Online (from 6 pm)
- Friday from 2 pm, Saturday from 8 am
- 1 block week/semester (all day from wednesday)

Tuition Fees

- EU/EEA citizens: 363.36 EUR per semester (plus Austrian Student Union fee).
- Citizens from non-EU/EEA countries: 726.72 EUR per semester (plus Austrian Student Union fee).



Curriculum

Course Name	ECTS / Semester	1	2	3	4
→ Plant construction					
Overall plant engineering I		1,5			
Plant engineering		3			
Balance of plant		3			
Welding technology		3			
Civil engineering in plant construction business		3			
Damage analysis			1,5		
Software supported plant engineering			1,5		
Sustainable energy systems		4,5			
Digital construction (BIM)				1,5	
Automation technology				3	
→ Project execution					
Plant safety			3		
Technical procurement Transport & logistics				3	
Erection & construction site management, commissioning of plants, As-built documentation				4	
Plant permission				1,5	
→ Project management & Project cases					
Accounting & Project financing		2,5			
Project controlling			2,5		
Project scheduling & Schedule control (MS Project)			1,5		
Interdisciplinary project planning			3,5		
Contract- & risk management				3	
Sales & pre-project phase				1,5	
Project cases				8,5	
Management of project crisis				2	
→ Business Law					
International contract law		2,5			
Tax law			1,5		
Plant construction contracts			4		
→ Soft Skills					
German language		2	2	2	
Intercultural communication		2			
Negotiation			2		
→ Individual qualification & Master thesis					
Individual qualification (electives)		3	7		
Master thesis Master seminar Master exam					30
Weekly course hours (total)		22	20	20	
International/Sem		30	30	30	30

International/Semester abroad

Worldwide chances: Experience the world. Project managers and projects engineers usually operate internationally, which is why social and leadership skills as well as english language skills are a real added value. With more than 100 partner universities abroad, we offer students a dense international network. A semester or internship abroad is therefore supported.

Project managers for large-scale projects in industrial plant construction need a sound and broad education in order to be able to master the challenges that this job entails. The strong practical relevance rounds off the degree program perfectly. The master's degree in plant construction management is an ideal basis for a successful career in international industrial plant engineering.

DI (FH) Andreas Beck MBA,
Managing Director Zaunergroup | Cooperation partner of degree program



The combination of studying and working was a great enrichment in my daily work at the time. Often you heard practical specialist knowledge during the courses and the next day I could apply this knowledge in my day-to-day project business.

DI Christian Greinecker BSc
Operations manager of VFI GmbH | Alumni of plant construction management

Career profile

Graduates are able to plan, implement and monitor international projects for the construction of production plants and manage them as project managers. The core sectors include all plant construction companies that build complete or partial plants for industry, but also all larger companies in the process industry and goods production that build, expand or convert plants. The global focus gives graduates the skillset required to pursue an international career and to realize global projects in mechanical and plant engineering, regardless of the plant technology.

Praxis and projects

You cannot get more in touch with the project business! The course focuses on a holistic view of the project business. Students are given deep insights into real plant engineering by proven experts and professors with many years of practical experience. As early as the 2nd semester, students solve a comprehensive plant engineering case study in teams. Countless practical project cases in the 3rd semester also prepare students for the challenges of the project business. This guarantees a high level of practical relevance and also paves the way for a national and international career. In the degree program, students not only learn a mix of engineering, business administration, business law and project management, they also acquire skills for future project teamwork.

Good to know

- The master degree program "plant construction management" is unique in Europe.
- A degree program is a mix of technology, economics and business law, with a focus on the project management business.
- Plant construction management was voted to the best degree programs in the field of "Other Technology" in the industry magazine "Universities of applied science ranking"!



Contact

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