Join the top engineering league

MSc Engineering Management
TU Wien

Postgraduate MSc Program
3 semesters, part-time
Engineering Management – 
Your key to the top engineering league

This part-time MSc Program is tailor-made for the demands and needs of companies worldwide facing a growing and increasingly competitive market. It is designed to prepare graduates from technical and economic universities for leadership roles in technical, corporate and national affairs. This program will also be especially valuable for individuals who have already started management careers.

In future technicians, lawyers and managers will be specialists not only in their field of expertise but also the respective complementary fields such as marketing, business management, law and engineering. In areas where economists, lawyers and engineers work together on the same level, either at the top of small and medium sized companies or in units of big companies, a well qualified engineering manager provides expertise and solutions to bridge existing interfacial gaps.

This MSc Program offers graduates from engineering schools the chance to extend and deepen their knowledge of economic and legal issues as well as it provides education in technical sciences for business managers and legal experts.

YOUR BENEFITS

- This outstanding, international MSc Program provides you with the necessary knowledge for an efficient and successful management of small and medium-sized enterprises as well as departments of large companies.
- Graduates will receive an internationally recognized degree: Master of Science (MSc) in Engineering Management granted by TU Wien.
- You will be taught by a top international faculty.
- This postgraduate MSc Program Engineering Management is unique. It is tailor-made for the demands and needs of companies worldwide.
- All lectures are given in English.
- 5 program is extra-occupational and consists of 14 weekend modules form Friday till Tuesday (every 3 to 6 weeks).

TU WIEN
Technology for People – Developing Scientific Excellence and Enhancing Comprehensive Competence

The TU Wien is the largest Austrian institution in research and education within the areas of technology and natural sciences. The beginnings of TU Wien reach back 200 years. Today the University finds high international and domestic recognition in teaching as well as in research and is a highly esteemed partner of innovation oriented enterprises. For years TU Wien has been successfully offering outstanding postgraduate programs. This success is also based on the top scientific and economic qualifications of its faculty.
## Curriculum

| Module 1: Production | Production Probability and Statistics  
|---------------------|--------------------------------------|
|                     | Statistical Concepts  
|                     | Regression Analysis  
|                     | Applied Statistics  
|                     | Design of Experiments  
|                     | Statistics in Technology  
|                     | Business and Management  
| Production Systems  | Production Systems  
|                     | Production Automation  
|                     | Design and Implementation of Production Systems  
|                     | Productivity  
|                     | Maintenance Systems  
|                     | Engineering Introduction to Systems  
|                     | Tools for Systems Analysis  
|                     | Design for Reliability  
|                     | Productibility  
|                     | Maintainability  
|                     | Manufacturability  
|                     | Systems Engineering Management  
| Project Management & Logistics  | Project Manager  
|                     | Project Team  
|                     | Planning and Strategies  
|                     | Conflicts  
|                     | Communication  
|                     | Negotiating  
|                     | Decision Making  
|                     | and Problem Solving  
| Technology  | Automation  
|                     | Metrology  
|                     | EoL Management  
|                     | Micro-, Nano-  
|                     | & Femtosystems  
|                     | Technologies for SME’s  
|                     | Trends in Technology  
| Company visits  | Selected companies of different sizes will be visited to verify the theoretical management skills  

| Module 2: Engineering Informatics | Computing  
|----------------------------------|--------------------------------------|
|                                  | Fundamentals  
|                                  | Software Engineering  
|                                  | Standard Software Packages  
|                                  | Selection of a Computer System  
|                                  | Development Trends  
| IT & Production  | Fundamentals  
|                     | Bus Systems  
|                     | Internet  
|                     | Local Area Networks  
|                     | LANs  
|                     | Mobile Communication: Mobile Communication:  
|                     | CIM, IMS, agile Manufacturing,  
|                     | Cyberphysical-Systems  
|                     | Simulation  
|                     | Costs and Reliability  

| Module 3: Business Management | Accounting  
|--------------------------------|--------------------------------------|
|                                | Cost Data for Decision Making  
|                                | Statement of Cash Flows  
|                                | Financial Statement Analysis  
|                                | Quality Costs & Reports  
|                                | Computerized Accounting Systems  
| Financing  | Financial Management  
|                     | Forecasting & Planning  
|                     | Replacement Decisions  
|                     | Liability Management  
|                     | Working Capital Management  
|                     | International Financial Management  
|                     | Analysis for Financial Management  
| Marketing  | Marketing Environment  
|                     | Ethics and Social Responsibility  
|                     | Consumer Buying Behaviour  
|                     | Channels and Physical Distribution  
|                     | Advertising and Publicity  
|                     | Pricing Decisions  
|                     | International Marketing  
| Operations Management  | Production and Operations Management  
|                     | Productivity, Competitiveness and Strategy  
| Quality Management  | Forecasting  
|                     | Design of Production Systems, Operating and Controlling  
| Management Information Systems  | Systems and Information Based Concepts  
|                     | Computer Based Information Systems  
|                     | Supply Chain Integration Systems  
|                     | e-Business  
|                     | e-Markets  
| International Law  | EU and International Law  
|                     | Contracting  
|                     | Licensing  
|                     | The Role of the Lawyer in a Company  
|                     | Company Law  
|                     | Mergers and Acquisitions  
|                     | Methods of Payment  
| Human Factors  | Business and Engineering Communication  
|                     | Creativity and Learning Skills  
|                     | Ethics in Engineering  
|                     | Presentations  

| Master’s Thesis | The Master’s Thesis is a practically orientated study that will – according to scientific criteria – enhance the participant’s skills in the field of the subject.  

SUBJECT TO MODIFICATION
Program, Objectives and Goals

PROGRAM OBJECTIVES
In order to succeed and proceed to higher management positions the combination of technical and economic knowledge is gaining importance. Experience with legal issues is an additionally sought after asset. This proofs that there is an increasing demand for employees with special knowledge in engineering, business management, marketing and jurisprudence.

TARGET GROUPS
The target group mainly comprises persons with a basis knowledge of engineering who work at the gateway between industrial economics and technology and those who want to operate in this area in the future.

- Engineering and other technology graduates who aspire to management positions.
- Established engineers working in the industry and faced with the challenge of new areas of responsibility following promotion to management positions.
- Graduates with no special technology who have technical knowledge and skills but need to broaden their experience and update their expertise.
- Persons with scientific, technological or appropriate business backgrounds, working in advisory and consultancy roles, who need to familiarize themselves with engineering management principles and practices.

ADMISSION REQUIREMENTS
Admitted individuals must either hold an academic degree in related subjects or other qualification which can be regarded as an equivalent thereof, i.e. activities similar to those of a university graduate or relevant professional experience.

FINAL DEGREE
The MSc Program is concluded by writing a master’s thesis. Achievement of the final degree Master of Science (MSc) granted by the TU Wien.

LANGUAGE OF INSTRUCTION
English

DURATION
The part-time postgraduate MSc Program is divided in 4 modules and scheduled in 13 tracks in three semesters.

FACULTY
Internationally distinguished experts are members of this highly acclaimed faculty, either through their sound interdisciplinary scientific knowledge or their extensive practical experience in the field of engineering management.

Learn from our internationally renowned experts!

Baddy Sonja Breidert, MSc
CEO Drupal Webagentur „1xINTERNET”

» The program encouraged me to take the next step in my career. In 2010 I founded my own company and we have grown to 13 people since then. The courses gave a very good insight into all aspects of running a successful business. I think back to the program with good memories and I keep good contact with the other colleagues. We are divided around the world, but we try regularly to meet up and catch up on our private and professional life. «

Dipl.-Ing. Michael Jungnitsch, MSc
CEO VDE Prüf- und Zertifizierungsinstitut GmbH

» This program is perfectly designed to accommodate a busy manager’s schedule with comprehensive onsite study units in an academic face-to-face environment. It offers a broad range of topics, all very relevant in the business world, taught by distinguished academic and business practitioners. The internationality of the students with various backgrounds and experiences was very valuable for a fruitful exchange of ideas. «
Highlights

- 25 years of experience in executive education
- Know-how for higher management positions
- International faculty & distinguished guest speaker events
- Global alumni network
- Visits to renowned companies
- Lectures in small, interdisciplinary groups – executive program
- Study in Vienna, the most liveable and smartest city in the world

Students' Profile

- **60%** International Students
- Over **180** Students & Alumni
- Average age **33** years
- 38 Nationalities

Career development after graduation

- 2/3 in Management positions
- 1/3 founded own companies

Background

- 42% Technical
- 28% IT or related
- 12% Economics/Management
- 2% Natural Sciences
- 8% Other

Dipl.-Ing. Michaela Ragossnig-Angst, MSc
CEO Angst Group

>> The diversity of the lectures in this program widened my horizont for technologies and related areas. I am managing since some years the company of my father and a lot of the management skills are very useful to be successful in the daily business. <<
# MSc Engineering Management

**Class 2020-2022**

**NEXT PROGRAM START:** November 20, 2020

**LOCATION:** The MSc Program will be held at TU Wien in blocked modules.

## Schedule

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<tr>
<th>FIRST SEMESTER</th>
<th>SECOND SEMESTER</th>
<th>THIRD SEMESTER</th>
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<td>TUE</td>
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<td>TUE Oct 19, 2021</td>
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<td><strong>TRACK II</strong></td>
<td><strong>TRACK VII</strong></td>
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<td>TUE</td>
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<td>TUE</td>
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**DURATION AND TIME SCHEDULE:** The part-time program is divided in 13 weekend tracks including excursions and takes three semesters. Lectures are held – every 3 to 6 weeks – from Friday morning till Tuesday noon.

The Master’s Thesis must be finished in March 31, 2022 the latest.

Graduation May 2022

Subject to modification
Admission

TUITION FEE
The tuition fee for the MSc Program is EUR 19,900 (VAT-free). The tuition fee does not include travel expenses and overnight stays.

INFO SESSIONS
Presentations of the MSc Engineering Management are held in Vienna in the form of information sessions designed for the discussion of questions concerning content and organization.

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<th>TU WIEN</th>
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<td>ONLINE</td>
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<td>June 19, 2020</td>
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Registration: engineering@tuwien.ac.at

Application

Application Deadline: September 30, 2020

ADMISSION INTERVIEWS
After receiving your full application an individual interview with the academic program director is planned. Admission interviews will take place after individual appointment.

Further information concerning application can be found at engineering.tuwien.ac.at

PERSONAL ADVISORY SERVICE

TU Wien
Continuing Education Center
Operngasse 11/017
1040 Vienna, Austria

Sandra Wagner
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T: +43-1-58801-41701

FACULTY
It has been possible to gain renowned international experts from the respective specialist fields.

Mohammed S. Bazaz, Ph.D. – California State University, USA
Baddy Sonja Breidert, MSc – 1xINTERNET, Germany
Dr.-Ing. Tom Duda Emerson – Automation Solutions, Switzerland
Ao.Univ.Prof.Dipl.-Ing.Dr.techn.Prof.h.c.Dr.h.c. Numan M. Durakbasa – TU Wien, Austria
Dr. Gregor Eckerth – agiplan GmbH, Germany
Prof.Dipl.-Ing.Dr.techn. Ilse Gebehusber – TU Wien, Austria
Dipl.-Ing.Dr. Edmond Hajrizi – University for Business and Technology, Kosovo
Dr. Lothar Hofmann – Attorney of law, Austria/USA
Architect Thomas Hrabal, MMSc Ph.D. – Hrabal Architektur, Austria
Dr. Norbert Jesse – QuinScape GmbH/TU Dortmund, Fakultät für Informatik, Germany
Ing. Thomas Kastner – TKC 80 Consulting GmbH, Austria
Dipl.Ing.Dr. Bernd Kopacek, MSc(OU) – Austrian Society for Systems Engineering and Automation, Austria
em.o.Univ.Prof.Dr.techn.Dr.h.c.mult. Peter Kopacek – TU Wien, Austria
Univ.Prof.Dr. Kurt Matyas – TU Wien, Austria
Dipl.-Ing. Tomislav Meniga, MSc(OU) – Menttech GmbH, Austria
Mag.Dr. Erhard Prantz – Kronotec Consulting GmbH, Austria
Dipl.-Ing. Alexander Scheidt, MSc(OU) – ACP Enterprise GmbH, Austria
Sankar Sengupta, Ph.D. – Oakland University, USA
Rajeev Singhal, Ph.D. – Oakland University, USA
Dr. Larry Stapleton – Waterford Institute of Technology, Ireland
Janelle Townsend, Ph.D. – Oakland University, USA
Terry J. Wharton, Ph.D. – Oakland University, USA
Prof.(FH)Dr. Martin Zauner, MSc(OU) – Upper Austria University of Applied Sciences, Austria

This represents a selection of the faculty of class 2019-2021.
Study in the most liveable city of the world: Vienna!