



Faculty of Economics and Business
Faculty of Civil Engineering,
Transportation Engineering and
Architecture
Faculty of Mechanical Engineering

UNIVERSITY OF MARIBOR

FACULTY OF ECONOMICS AND BUSINESS

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THE 2ND-CYCLE INTERDISCIPLINARY STUDY PROGRAMME IN INDUSTRIAL ENGINEERING (GING)

Location: Maribor

Duration: 120 ECTS, 2 years

Access requirements:

1. GING – THE CIVIL ENGINEERING OPTION

Candidates who completed the following may apply for the *Civil Engineering* option of the 2nd-cycle (master's) study programme in *Industrial Engineering*:

1. A 1st-cycle (bachelor's) study programme in one of the following fields: industrial engineering - civil engineering option (0788), building and civil engineering encompassing the entire field (0732), mechanics (0715), industrial engineering – mechanical engineering option (0788), or architecture (0731).
2. A 1st-cycle (bachelor's) study programme in one of the following fields: transport services (traffic) (1041), engineering and engineering trades (traffic engineering, mechatronics, environmental engineering, environmental protection) (0788), industrial engineering – electrical engineering option (0788), electricity and energy (0713), electronics and automation (electrical engineering) (0714), environmental sciences (0521), Information and Communication Technologies (ICTs) not further defined (0610), economics (0311, 0413, 0388, 0488), or town planning (0731).

Prior to enrolment, candidates shall pass the following courses corresponding to between 10 and 60 ECTS credits under the 1st-cycle (bachelor's) study programme, a supplementary study programme, or by taking bridging exams: *Structural Mechanics, Geotechnics, Hydraulic Engineering, Engineering Structures, Construction Management, and Construction Materials and Economics*.

3. An undergraduate professional study programme adopted prior to 11 June 2004 in the following field: building and civil engineering encompassing the entire field (0732).
4. An undergraduate professional study programme adopted prior to 11 June 2004 in one of the following fields: transport services (traffic) (1041), engineering and engineering trades (traffic engineering) (0788), architecture (0731), mechanics (0715), or town planning (0731).

Prior to enrolment, candidates shall pass the following courses corresponding to between 10 and 60 ECTS credits under the 1st-cycle (bachelor's) study programme, a supplementary study programme, or by taking bridging exams: *Structural Mechanics, Geotechnics, Hydraulic Engineering, Engineering Structures, Construction Management, and Construction Materials and Economics*.

5. An undergraduate academic study programme adopted prior to 11 June 2004 in one of the following fields: industrial engineering - civil engineering option (0788) or building and civil engineering encompassing the entire field (0732).

Candidates are typically awarded 60 ECTS credits and may enrol in the second year of study provided they satisfy the transfer criteria laid down in the accredited study programme.

6. An undergraduate academic study programme adopted prior to 11 June 2004 in one of the following fields: transport services (traffic) (1041), architecture (0731), mechanics (0715), or town planning (0731).

Candidates are awarded up to 40 ECTS credits and may enrol in the corresponding year of study.

7. A specialisation following an undergraduate professional study programme adopted prior to 11 June 2004 in the following field: or building and civil engineering encompassing the entire field (0732).

Candidates are typically awarded 60 ECTS credits and may enrol in the second year of study provided they satisfy the transfer criteria laid down in the accredited study programme.

8. A specialisation following an undergraduate professional study programme adopted prior to 11 June 2004 in one of the following fields: transport services (traffic) (1041), architecture (0731), mechanics (0715), or town planning (0731).

Candidates are awarded up to 40 ECTS credits and may enrol in the corresponding year of study.

Selection criteria in the event of limited enrolment:

If the number of applications exceeds the number of available enrolment places, candidates shall be ranked according to:

- grade point average (100%).

Transfer criteria:

Candidates may transfer between study programmes in accordance with the Higher Education Act, Criteria for Transferring Between Study Programmes and other rules.

In accordance with the Criteria for Transferring Between Study Programmes, candidates may enrol:

- in the second year of the 2nd-cycle (master's) study programme in *Industrial Engineering (GING) – the Civil Engineering option* if they have ceased their studies in the previous study programme and will continue them under a new study programme at the same level, or if a higher education graduate is enrolling in a new study programme at the same level.

Candidates may transfer from study programmes in the field of building and civil engineering.

Candidates may transfer to the study programme provided they fulfil the following criteria:

- criteria for enrolment in the first year of the 2nd-cycle study programme in *Industrial Engineering (GING) – the Civil Engineering option*;
- they are transferring from a study programme leading to the acquisition of comparable competences or learning outcomes;
- at least half of the study obligations evaluated according to the ECTS credit system of the previous study programme relating to compulsory courses of the new study programme are recognised.

The transfer shall be addressed by a competent senate committee of the faculty where the candidate intends to continue his studies. In accordance with the Rules on the Recognition of Knowledge and Skills in Study Programmes of the University of Maribor, the candidate shall submit to the faculty:

- an application for the recognition of knowledge and skills at the University of Maribor;
- proof of fulfilled study obligations (exams) including grades and ECTS credits;
- validated course syllabi according to which knowledge was acquired;
- a receipt of payment for the recognition procedure.

When transferring from one study programme to another, fulfilled study obligations that may be recognized fully or partially are identified, taking into account the content, extent, and level of complexity of the new study programme, and study obligations required for completion of the new study programme are laid down.

Full-time studies:

2. GING – THE MECHANICAL ENGINEERING OPTION

Candidates who completed the following may apply for the *Mechanical Engineering* option of the 2nd-cycle (master's) study programme in *Industrial Engineering*:

1. A 1st-cycle (bachelor's) study programme in one of the following fields: engineering and engineering trades (071), interdisciplinary programmes and qualifications involving engineering, manufacturing and construction (0788), environmental protection technology (0712), building and civil engineering (0732), transport services (1041), or environmental sciences (0521).
2. A 1st-cycle (bachelor's) study programme in one of the following fields: economics (0311), business and administration not further defined (0410), wholesale and retail sales (0416), marketing and advertising (0414), management and

administration (0413), physics (0533), chemistry (0531), mathematics (0541), statistics (0542), food processing (0721), textiles (clothes, footwear and leather) (0723), materials (glass, paper, plastic and wood) (0722), mining and extraction (0724), architecture and town planning (0731), biochemistry (0512), Information and Communication Technologies (ICTs) not further defined (0610), or electronics and automation (0714).

Prior to enrolment, candidates shall pass the following courses corresponding to 29 ECTS credits under the 1st-cycle (bachelor's) study programme, a supplementary study programme, or by taking bridging exams: *Mathematical Analysis* (6 ECTS), *Algebra* (6 ECTS), *Mechanics I* (6 ECTS), *Principles of Economics* (5 ECTS), and *Business Economics* (6 ECTS).

3. An undergraduate professional study programme adopted prior to 11 June 2004 in one of the following fields: engineering and engineering trades (071), inter-disciplinary programmes and qualifications involving engineering, manufacturing and construction (0788), environmental protection technology (0712), building and civil engineering (0732), transport services (1041), or environmental sciences (0521).

4. An undergraduate professional study programme adopted prior to 11 June 2004 in one of the following fields: economics (0311), business and administration not further defined (0410), wholesale and retail sales (0416), marketing and advertising (0414), management and administration (0413), physics (0533), chemistry (0531), mathematics (0541), statistics (0542), food processing (0721), textiles (clothes, footwear and leather) (0723), materials (glass, paper, plastic and wood) (0722), mining and extraction (0724), architecture and town planning (0731), biochemistry (0512), Information and Communication Technologies (ICTs) not further defined (0610), or electronics and automation (0714).

Prior to enrolment, candidates shall pass the following courses corresponding to 29 ECTS credits under the 1st-cycle (bachelor's) study programme, a supplementary study programme, or by taking bridging exams: *Mathematical Analysis* (6 ECTS), *Algebra* (6 ECTS), *Mechanics I* (6 ECTS), *Principles of Economics* (5 ECTS), and *Business Economics* (6 ECTS).

5. An undergraduate academic study programme adopted prior to 11 June 2004 in one of the following fields: engineering and engineering trades (071), inter-disciplinary programmes and qualifications involving engineering, manufacturing and construction (0788), environmental protection technology (0712), building and civil engineering (0732), transport services (1041), or environmental sciences (0521).

Candidates are typically awarded 60 ECTS credits and may enrol in the second year of study provided they satisfy the transfer criteria laid down in the accredited study programme.

6. An undergraduate academic study programme adopted prior to 11 June 2004 in one of the following fields: economics (0311), business and administration not further defined (0410), wholesale and retail sales (0416), marketing and advertising (0414), management and administration (0413), physics (0533), chemistry (0531), mathematics (0541), statistics (0542), food processing (0721), textiles (clothes, footwear and leather) (0723), materials (glass, paper, plastic and wood) (0722), mining and extraction (0724), architecture and town planning (0731), biochemistry (0512), Information and Communication Technologies (ICTs) not further defined (0610), or electronics and automation (0714).

Candidates are awarded 30 ECTS credits and may enrol in the corresponding year of study.

7. A specialisation following an undergraduate professional study programme adopted prior to 11 June 2004 in one of the following fields: engineering and engineering trades (071), inter-disciplinary programmes and qualifications involving engineering, manufacturing and construction (0788), environmental protection technology (0712), building and civil engineering (0732), transport services (1041), or environmental sciences (0521).

Candidates are typically awarded 60 ECTS credits and may enrol in the second year of study provided they satisfy the transfer criteria laid down in the accredited study programme.

8. A specialisation following an undergraduate professional study programme adopted prior to 11 June 2004 in one of the following fields: economics (0311), business and administration not further defined (0410), wholesale and retail sales (0416), marketing and advertising (0414), management and administration (0413), physics (0533), chemistry (0531), mathematics (0541), statistics (0542), food processing (0721), textiles (clothes, footwear and leather) (0723), materials (glass, paper, plastic and wood) (0722), mining and extraction (0724), architecture and town planning (0731), biochemistry (0512), Information and Communication Technologies (ICTs) not further defined (0610), or electronics and automation (0714).

Candidates are awarded 30 ECTS credits and may enrol in the corresponding year of study.

Selection criteria in the event of limited enrolment:
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If the number of applications exceeds the number of available enrolment places, candidates shall be ranked according to:

- grade point average (100%).

Transfer criteria:

In accordance with the Criteria for Transferring Between Study Programmes, candidates may enrol:

- in the second year of the 2nd-cycle (master's) study programme in *Industrial Engineering (GING) – the Mechanical Engineering option* if they have ceased their studies in the previous study programme in the field of engineering and engineering trades (071), inter-disciplinary programmes and qualifications involving engineering, manufacturing and construction (0788), environmental protection technology (0712), building and civil engineering (0732), transport services (1041), or environmental sciences (0521) and will continue them under this study programme at the same level.

Candidates may transfer to the study programme provided they fulfil the following criteria:

- criteria for enrolment in the first year of the 2nd-cycle study programme in *Industrial Engineering (GING) – the Mechanical Engineering option*;
- they are transferring from a study programme leading to the acquisition of comparable competences or learning outcomes;
- at least half of the study obligations evaluated according to the ECTS credit system of the previous study programme relating to compulsory courses of the new study programme are recognised.

The transfer shall be addressed by the Committee for Academic Affairs of the Faculty of Mechanical Engineering. In accordance with the Rules on the Recognition of Knowledge and Skills in Study Programmes of the University of Maribor, the candidate shall submit to the faculty:

- an application for the recognition of knowledge and skills at the University of Maribor;
- proof of fulfilled study obligations (exams) including grades and ECTS credits;
- validated course syllabi according to which knowledge was acquired;
- a receipt of payment for the recognition procedure.

If under the recognition procedure enough fulfilled study obligations is recognized that the candidate meets the criteria for enrolment in the second year of the 2nd-cycle (master's) study programme in *Industrial Engineering (GING) – the Mechanical Engineering option*, enrolment in the second year is approved and study obligations required for completion of the new study programme are laid down.

Mode of study: full-time

Number of available enrolment places: The number of available enrolment places is published in tables that represent an integral part of the Call.

THE 3RD-CYCLE INTERDISCIPLINARY STUDY PROGRAMME IN INDUSTRIAL ENGINEERING (GING)

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Contact at the Faculty of Mechanical Engineering: Andreja Rajh, **phone:** +386 2 22 07 506, **e-mail:** referat.fs@um.si

Contact for the application-admission procedure at the University of Maribor: Petra Usar, **phone:** +386 2 23 55 288, **e-mail:** petra.usar@um.si

Location: Maribor

Duration: 180 ECTS, 3 years

Access requirements:

Candidates who completed the following may apply for the 3rd-cycle (doctoral) study programme in *Industrial Engineering*:

- a 2nd-cycle (master's) study programme;
 - an integrated (long-cycle) master's study programme corresponding to 300 ECTS credits;
 - an undergraduate academic study programme adopted prior to 11 June 2004 and corresponding to at least 240 ECTS credits;
 - a specialisation following an undergraduate professional study programme adopted prior to 11 June 2004 and corresponding to at least 240 ECTS credits in total.
- Prior to enrolment, candidates shall pass courses of the 2nd-cycle (master's) study programme in *Industrial Engineering* corresponding to at least 30 ECTS credits. Courses are passed under a supplementary study programme or by taking bridging exams. Candidates shall pass the courses laid down by the relevant committee of the senate of the UM member that the candidates' supervisor originates from.
- An equivalent study programme completed abroad.

Selection criteria in the event of limited enrolment:

If the number of applications exceeds the number of available enrolment places, candidates shall be ranked according to grade point average including the thesis (100%).

Transfer criteria:

Candidates may transfer to the study programme provided they fulfil the following criteria:

- criteria for enrolment in the first year of the 3rd-cycle (doctoral) study programme in *Industrial Engineering*;
- they are transferring from a study programme leading to the acquisition of comparable competences or learning outcomes;
- at least half of the study obligations evaluated according to the ECTS credit system of the previous study programme relating to compulsory courses of the new study programme are recognised.

In accordance with the Criteria for Transferring Between Study Programmes, candidates who completed the following may be admitted to a corresponding year of the 3rd-cycle (doctoral) study programme in *Industrial Engineering*:

- A master of science study programme adopted prior to 11 June 2004 in the field of engineering and natural sciences. Depending on the similarity of the study programmes, candidates are awarded between 60 (enrolment in the second year of study) and 120 ECTS credits (enrolment in the third year of study).

- A specialisation (a minimum of 60 ECTS credits) following an undergraduate academic study programme in the field of engineering and natural sciences (a minimum of 240 ECTS credits) adopted prior to 11 June 2004 and corresponding to at least 300 ECTS credits in total. Candidates are awarded 60 ECTS credits.

Candidates may transfer to the study programme also from other 3rd-cycle study programmes in the field of engineering and natural sciences provided they fulfil the access requirements and there are enough enrolment places available.

The transfer shall be addressed by the Committee for Academic Affairs. In accordance with the Rules on the Recognition of Knowledge and Skills in Study Programmes of the University of Maribor, the candidate shall submit to the faculty:

- an application for the recognition of knowledge and skills at the University of Maribor;
- proof of fulfilled study obligations (exams) including grades and ECTS credits;
- validated course syllabi according to which knowledge was acquired;
- a receipt of payment for the recognition procedure.

If under the recognition procedure enough fulfilled study obligations is recognized that the candidate meets the criteria for enrolment in the higher year of the 3rd-cycle (master's) study programme in *Industrial Engineering*, enrolment in the second or higher year is approved and study obligations required for completion of the new study programme are laid down.

Mode of study: part-time

The implementation of courses under the part-time programme shall be adjusted to the number of enrolled candidates, as laid down in the implementation plan.

Number of available places: The number of available enrolment places is published in the tables that represent an integral part of the Call.

Application and admission procedure:

Candidates **shall submit their application for enrolment and all supplemental documents required for application electronically via the eVŠ information system** within the deadline determined by the Call for Enrolment. Application and admission procedure for enrolment in the 3rd-cycle study programme in *Industrial Engineering* is coordinated by the Rectorate of the University of Maribor with the candidate being enrolled by the UM member that the candidates' supervisor originates from. **Prior to enrolment, a candidate for doctoral studies shall choose, as a rule, a working supervisor and narrow area of research, and prepare a framework programme of doctoral studies.** The candidate will be asked to provide this information immediately upon receipt of their application for study.