Introduction to MSc Program in Operations Management & Logistics
Today’s program

• What is OML?

• The Master’s Program
  • Program structure
  • International semester
  • Thesis
  • After OML

• Student experience
Introduction
Eindhoven University of Technology

Technische Universiteit Eindhoven (TU/e)

Rankings

<table>
<thead>
<tr>
<th>CWTS Leiden Ranking</th>
<th>National Student Survey (NSE)</th>
<th>Elsevier Faculty Rating (professors)</th>
<th>UI GreenMetric World University Ranking</th>
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<td>TU/e NO.1 university</td>
<td>TU/e NO.1 university</td>
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11 three-year Bachelor’s programs (BSc)
22 two-year Master’s degree programs (MSc)
11 two-year designer programs (PDEng)

4,973 BSc students (4% international)
3,238 MSc students (16% international)
290 technological designers (PDEng)
1,210 doctoral candidates (PhD)

17 August 2014 - Shanghai Ranking (ARWU): TU/e Best Dutch Engineering University, Rank 49 in its Class
Diamond Jubilee

Technische Universiteit Eindhoven (TU/e) = 60
Diamond Jubilee Celebration

‘Mens Agitat Molem’
‘It is the human mind that is changing the matter’

More information about Diamont Jubilee Ceremony:
Introduction: Bachelor Foundations and Master Specializations of Industrial Engineering

Bachelor Foundations

Master Specializations

Innovation Management

Operations Management & Logistics

Industrial Engineering at TU/e
Domain

- Operations Management & Logistics deals with the modeling, analysis and management of operational business processes, i.e. processes that are essential in delivering a *product* or *service* to a customer
  - Manufacturing
    - Production control and production management
  - Services
    - Workflow modeling and workflow management
    - Health care operations management
  - Logistics
    - Supply chain management, inventory management
    - Transportation optimization
OML: many different research interests by mentors

- incentives and motivation
- impact of stress and well-being on performance
- business process modeling
- ICT architectures
- software engineering
- production planning
- inventory control & supply chain planning
- operational finance
- quality and reliability engineering
- sustainable operations management
- ...

/School of Industrial Engineering
Examples of Master’s Thesis areas

- Develop a performance measurement system for autonomous groups
- Develop a system that extracts workflows from transaction systems
- Develop a supply chain planning logic that distributes inventory investment across the supply chain
- ...
Key strengths of the OML program

1. Excellent set of professors who are recognized worldwide – both in academia and industry – as thought leaders in their field
2. Extremely close relationship between mentor and student over an extended period of time
3. Both in-depth theory and industry-applied design ability development
4. Graduates are in extremely high demand by the best companies
5. Competitive and cooperative environment
An overview of OML MSc Program

- Brand new program: recently redesigned
Main Features of the OML Master’s Program

• All classes conducted in English.
• All courses are quarter courses.
• All students are encouraged to go abroad for an international semester.
Main Features of the OML Master’s Program

- **MSc OML = 2 years = 8 quarters**
  - 2 periods (‘quarters’) per semester
  - 8 weeks classes; 2 weeks exams per period
  - Interim period (re-exams) in the summer

- **European Credit Transfer System (ECTS)**
  - Based on student estimated workload
  - 1 ECTS = 28 hrs of workload
  - All courses: 5 ECTS = 140 hrs
  - Typically 3 courses per quarter = 15 ECTS = 420 hrs
  - MSc OML = 2 years = 8 quarters = 120 ECTS = 3360 hrs
Mentor System, to Assist You in Your Study Process

- At the end of the second quarter (first semester)
- Free Market: interviews to match students with mentors

Role of the Mentor

- Advise on / approval of electives
- Advise on planning your international semester (e.g., school, courses)
- Assistance with selection and preparation of thesis (topic, company)
- Topic of thesis needs to match with research interests of the mentor
- Supervision of thesis project
Program Structure

- OML MSc program has 5 (+1) tracks, that consist of:
  (i) Courses that belong together;
  (ii) Master’s thesis subjects for which those courses are relevant.

- Students are coupled to mentors in two steps:
  Before the end of the first quarter, a student is coupled to a *track*. Before the end of the second quarter, a student is coupled to a *mentor*. 
Program Structure

- Courses fall into four categories:
  - Core courses (10 ects)
  - Track core courses (20 ects)
  - Specialization electives (min 15 ects)
  - Free electives (max 40 ects)
    - Can also take homologation courses (max 15 ects)
- MSc Thesis:
  - Literature review (5 ects)
  - Research proposal + Thesis work: (30 ects)
  - More than 90% of the projects are conducted in industry
Core Courses (All tracks)

- **1JM11 Performance Enhancement**
  
  In this course, students get familiarized with the diverse aspects of human performance in organizations. Students will increase their knowledge about the performance of individual employees as well as the performance of teams using state-of-the-art developments in the field of Work and Organizational Psychology. This course is aimed at teaching students how to apply theoretical knowledge in order to enhance human performance. Furthermore, students are trained to critically read scientific articles and to design new studies in the area of performance enhancement.

- **1JM110 Research Methods**
  
  The objective of this course is to provide the students with methodological knowledge and maturity in undertaking research into operations management. It introduces philosophical issues in the theory of knowledge, ethical issues in research conduct, and considers quantitative and qualitative methods in turn, addressing issues in specific approaches, and considerations in data collection, simulation, and analysis. The course is taught through weekly lectures and several assignments, which aim to enhance the understanding of specific methods. For the small group assignments, students will study some of the research methods in depth. They will work on the assignments in groups. Several lecturers from different disciplines will contribute to this course. The emphasis throughout is on understanding the conceptual underpinning of different methods, and their strengths and limitations in research.
Core Requirements

• The students also need to acquire sufficient knowledge in financing and accounting. This can be obtained from 1CM22 Integrated Financial & Operations Management, as well as
  • BSc courses (such as the current 1CK40 AND 1-out-of-two:1CK80 or 1CK90),
  • or a course during the international semester.

• Furthermore, the students need to have sufficient knowledge in programming and simulation at the start of the program, as this knowledge is pre-requisite in some courses. The students missing this knowledge are strongly recommended to follow a homologation course (such as 1BK50) which will consume from the free elective space.
Tracks

1. Healthcare
2. Capital Goods
3. Consumer Goods
4. Service Operations
5. Transportation
(+ a Free Track for honors students)
To avoid misunderstandings!

• We have one OML Master’s program: the choice for a track will not be specified on your diploma.

• Tracks are not meant to limit you; they provide guidance for your study, i.e. they help you select relevant courses from the beginning of your program.

• All courses are open to all students and there are no track-specific limitations to master’s theses.
1. Healthcare

Main Research Topics: capacity planning, business process management, transfer of training, decision support, and human performance.

Track core courses:

- 1-out-of-2:
  - 1BM05 Business Process Management
  - 1BM56 Business Intelligence
- 1BM70 Health Care Business Networks
- 1-out-of-2:
  - 1CM10 Modeling & Analysis of Manufacturing Systems
  - 1CM25 Supply Chain Operations Planning
- 1CM60 Design of health care planning and control systems
1. Healthcare

Track specialization electives: (choose at least 3 -in addition to track core courses-)

- 0EM60 Perspectives on medical technology
- 1BM05 Business Process Management
- 1BM20 Software requirements management: quality and functionality
- 1BM41 Business Information Systems Architecture
- 1BM56 Business Intelligence
- 1CM10 Modeling & Analysis of Manufacturing Systems
- 1CM22 Integrated Financial & Operations Management
- 1CM25 Supply Chain Operations Planning
- 1JM21 Designing effective performance management systems
- 1JM30 Managing team and team performance
- 1JMX0 Organizational Change/Change Management
- 1ZM31 Multivariate Statistics
- 1ZM65 System Dynamics
2. Capital Goods

Main research topics: production planning, inventory planning, maintenance & reliability, sustainability, forecasting, and human performance.

Track core courses:

• 1-out-of-2:
  • 1BM05 Business Process Management
  • 1BM56 Business Intelligence
• 1CM05 Design of Operations Planning and Control systems
• 1CM10 Modeling & Analysis of Manufacturing Systems
• 1CM25 Supply Chain Operations Planning
2. Capital Goods

Track specialization electives: (choose at least 3 -in addition to track core courses-)

• 1BM05 Business Process Management
• 1BM41 Business Information Systems Architecture
• 1BM56 Business Intelligence
• 1BM65 IT-Governance
• 1CM22 Integrated Financial & Operations Management
• 1CM30 Service supply chain for capital goods
• 1CM36 Game Theory with applications to Supply Chain Management
• 1CM65 Green Supply Chains
• 1JM21 Designing effective performance management systems
• 1ZM31 Multivariate Statistics
• 1ZM35 Strategic sourcing and supply management
3. Consumer Goods

Main research topics: inventory planning, store operations, warehousing, pricing, assortment planning, forecasting, and human performance.

Track core courses:

- 1-out-of-2:
  - Business Intelligence
  - Business Information Systems Architecture

- 1-out-of-2:
  - 1CM10 Modeling & Analysis of Manufacturing Systems
  - 1CM25 Supply Chain Operations Planning

- 1CM40 Retail Operations

- 1CMXX Designing Operations for Consumer Goods Sector
3. Consumer Goods

Track specialization electives: (choose at least 3 - in addition to track core courses -)

- 1BM05 Business Process Management
- 1BM41 Business Information Systems Architecture
- 1CM05 Design of Operations Planning and Control Systems
- 1CM10 Modeling & Analysis of Manufacturing Systems
- 1CM22 Integrated Financial & Operations Management
- 1CM25 Supply Chain Operations Planning
- 1CM36 Game theory with applications to supply chain management
- 1CM65 Green Supply Chains
- 1CM70 Decision-making in Freight Transport and Logistics
- 1JM21 Designing effective performance management systems
- 1ZM31 Multivariate Statistics
- 1ZM35 Strategic sourcing and supply management
4. Service Operations

Main research topics: Business process management and human performance.

Track core courses:
- 1BM05 Business Process Management
- 1-out-of-2:
  - 1BM41 Business Information Systems Architecture
  - 1BM56 Business Intelligence
- 1-out-of-2:
  - 1CM10 Modeling & Analysis of Manufacturing Systems
  - 1CM25 Supply Chain Operations Planning
- 1BMXX Design Project for Service Systems
4. Service Operations

Track specialization electives: (choose at least 3 - in addition to track core courses -)

- 1BM10 Electronic Business
- 1BM20 Software requirements management: quality and functionality
- 1BM41 Business Information Systems Architecture
- 1BM56 Business Intelligence
- 1BM65 IT-Governance
- 1CM10 Modeling & Analysis of Manufacturing Systems
- 1CM22 Integrated Financial & Operations Management
- 1CM25 Supply Chain Operations Planning
- 1JM21 Designing effective performance management systems
- 1JM30 Managing team and team performance
- 1JMXX Organizational Change/Change Management
- 1ZM31 Multivariate Statistics
- 1ZM65 System Dynamics
5. Transportation

Main research topics: transportation optimization, port and terminal operations, sustainability, business process management, and human performance.

Track core courses:
- 1BM41 Business Information Systems Architecture
- 1CM70 Decision-making in Freight Transport and Logistics
- 1CM75 Innovations in Global Freight Transport
- 1CMYY Design of Transportation Systems
5. Transportation

Track specialization electives: (choose at least 3)

- 1BM20 Software requirements management: quality and functionality
- 1BM56 Business Intelligence
- 1CM10 Modeling & Analysis of Manufacturing Systems
- 1CM22 Integrated Financial & Operations Management
- 1CM25 Supply Chain Operations Planning
- 1CM36 Game theory with applications to supply chain management
- 1CM65 Green Supply Chains
- 1JM21 Designing effective performance management systems
- 1ZM31 Multivariate Statistics
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Program OML 2015-2016: details

http://studiegids.tue.nl/graduate-school/masteropleidingen/operations-management-logistics/curriculum/
Course characteristics

- Content related to current research by finding additional literature and other academic sources
- Students conduct *design* projects, based on actual business processes, and relate this to the scientific literature
- Content placed in its original context contains various perspectives, including scientific controversies
- Student reporting is not limited to the actual *design* assignment, but always *reflects* on the relative *contribution* of the various *disciplines*, the societal context and impact, and the feasibility of implementation related to the specific circumstances, including regional and business cultures.
Diagnostic Test of Professional Skills

From September 2015 onwards, each new Master student will receive an invitation by e-mail within the first month of their master program to do the Diagnostic Test of Skills (OER art. 3.4). This invitation will be sent by TU/e student administration.

SKL00
A Broad Test on Skills

SKL10
In-depth Test on Teamwork Skills

SKL20
In-depth Test on Presentation Skills

SKL30
In-depth Test on Academic Writing Skills

Personal Skills Development Plan

After completing one or more assessments, you can use the Personal Skills Development Plan Tool to prepare your personal skills development plan. This plan will be discussed with the mentor during the introductory meeting.
International and diverse environment

- Annual intake until 2015: 100-120 students (80% in Fall semester)
  - 15% international
  - 25% from other programs than TU/e BSc IE&MS
- Fall 2015: Around 130
- Exchange students (total at IE school incoming 40-50 per semester)
- Faculty (mentors): 30+% international

- ... and of course we stimulate you strongly to spend a semester abroad
International semester

• Important to line up with mentor
• Information available at IE&IS International Office
Master’s Thesis

- Selection of specific research area after second quarter, together with the mentor
- Close relationship with mentor
- Last two quarters dedicated to (MSc.) research project (literature review prior to that)
Options within the program

- Double diploma (INPG – France and KAIST- Korea)
  - For students with undergraduate diploma at TU/e or UT – IE
  - Apply at admission committee before end of your first semester
  - Five-semester programs
  - Max 4 students / program / year
- Dual Degree Programs with other MSc programs at TU/e
- Honors Track in Research (PhD degree)
- Honors Track in Design (PDEng degree)
- Technology Entrepreneurship and Management Certificate
After OML

- Starting a research career as a PhD student (2%)

- Continue education in the designer PDEng program Logistics Management Systems (4%)

- A well-paid and interesting career in industry (94%)
  - Multinationals and other large corporations
  - Consulting agencies
  - Entrepreneurs
### OordeLEN

#### WO EConometRIE

<table>
<thead>
<tr>
<th>Instelling</th>
<th>Opleiding</th>
<th>Inhoud</th>
<th>Docenten</th>
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#### OPERATIONS RESEARCH & MANAGEMENT

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#### ACTUARIÉLE WETENSCHAPPEN

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#### MASTERS VOOR PROFESSIONALS

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Opmerkingen en noten
... and also in Elsevier 2015

Ranking Elsevier 2015

**Comparison in category Technische Bedrijfskunde (Industrial Engineering)**

*Percentage of students that are satisfied or very satisfied*

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<tr>
<th>Institution</th>
<th>Program</th>
<th>Facilities</th>
<th>Teaching Quality</th>
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Conclusion

- OML provides you all knowledge you need to become an excellent logistics professional
  - Strong theoretical basis
  - Highly rated by students in particular on the aspects of ‘content, skills, lecturers, career preparation, examinations and assessment, provision of information and contact’.

- Excellent start for your Career
Questions?
Useful Links

- http://studiegids.tue.nl/en

- More info on honors programs:
  http://educationguide.tue.nl/graduate-school/masters-programs/operations-management-logistics/curriculum/honors-program-imoml/

- Schedules, exams, course related: http://oase.tue.nl

- Department and program related information:
  http://educationguide.tue.nl/gs/oml