



# INDUSTRIAL ENGINEERING & MANAGEMENT

## Location Breda

If you think big, bigger, biggest, Industrial Engineering and Management is perfect for you. This study programme equips you with the knowledge and skills to work on large technical installations and to manage the maintenance of mammoth vessels and the repair of aircraft.

### YOU

You have a flair for technology. You enjoy working with people from around the world. You are quick to see how machines and processes work. You understand what steps you need to take to improve the performance of companies. You are also keen to look beyond borders. You have self-confidence and persuasive powers. And you approach your tasks responsibly.



### THE PROGRAMME

In the first year, you will acquire basic knowledge that you will apply later during your studies. The key subject areas are technology, maintenance, management, leadership and negotiating. You will draw up cost projections, schedules and reports. And give presentations in English. You will visit various companies in the Netherlands and abroad. And carry out practical assignments for them. Year 2 is about deepening and applying knowledge, while year 4 focuses on company strategy and asset management.

### Practical experience

In years 3 and 4 you may spend part of the bachelor's programme outside of the Netherlands. In year 3 you will do a work placement of 20 weeks. This involves fulfilling an internship assignment while you work at an assistant level at a national or international organisation. In year 3 you will also follow an international programme (minor) at Avans or another university of applied sciences or research university in the Netherlands or abroad. In year 4 you will complete an individual graduation assignment in an organisation, as part of which you will investigate a company's problem and look for possible solutions.

### International

You will study in English and many fellow students will come from abroad. What's more, you will work on international projects. Lecturers have extensive international work experience and use real cases in the classroom. And you will gain international work experience during your studies as you may spend up to 1.5 years abroad for work placements, a semester exchange or a graduation assignment.

### WHY STUDY IEM AT AVANS

The IEM programme at Avans consistently achieves top 3 positions in national rankings (e.g. HBO Keuzegids), showing that the quality of the programme is high.

### OVERVIEW IEM PROGRAMME

	Quarter 1	Quarter 2	Quarter 3	Quarter 4
<b>Year 1</b>	Introduction to IEM	Statistical control	Maintenance performance	Planning & preparation
<b>Year 2</b>	Lean maintenance		Reliability Centered Maintenance	
<b>Year 3</b>	Minor or work placement		Minor or work placement	
<b>Year 4</b>	Strategic asset management		Graduation internship	

### Vilius Rasickis (Lithuania)

"I wanted to pursue a practical-oriented study programme in a technical environment. I discovered that Industrial Engineering and Management matched my interests. The programme is really flexible with lots of company visits, projects and work placements with different corporations in various industries. During my work placement, I was able to apply the knowledge gained at Avans directly in my work. The programme has a very practical approach, which I really like. After my work placement, I continued to work at my work placement company as a project assistant for management and operations. The career prospects for Industrial Engineering and Management students are excellent, since a lot of big international and smaller local companies participate in the programme."



### ADMISSION REQUIREMENTS

The level of your prior education has to be equivalent to the Dutch havo, vwo or mbo courses, including mathematics and physics. Students who do not have an International Baccalaureate must take an English language test (minimum score IELTS 6.0 or equivalent is required). All questions regarding admission may be directed to our International Office.

### CAREER POSSIBILITIES

#### Work

As an Industrial Engineering and Management graduate, the world is your workplace. There is high global demand for industrial engineers with a specialization in maintenance. This means your Bachelor of Science degree opens up a world of opportunities. The majority of IEM alumni work as maintenance consultants, maintenance managers, assistant project managers, reliability engineers or asset managers.

#### Master

After your studies, you can pursue a master's degree (MSc) at Eindhoven Technical University or another university in the Netherlands or abroad.

### CONTACT US

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