

# International Master of Automotive Engineering



**Saskia Monsma**

## 2<sup>nd</sup> year – HAN – Arnhem The Netherlands



## Hogeschool van Arnhem en Nijmegen (HAN-University of Applied Sciences)

- **University of Applied Sciences**
- **Foundation 1953**
- **> 30,000 students, > 2,500 staff**
  - Of which 2,100 int. students from > 70 countries
- **Budget of € 100 million/year**
- **Located in Arnhem and Nijmegen**
- **4 Faculties**
  - Engineering / Informatics and Communication / Built Environment / Applied Sciences
  - Economics & Management
  - Social Behaviour & Health Care
  - Education





# The HAN Buildings in Arnhem













How far does your ambition go?

Master of Automotive Systems

# Basics of MAS

- MAE entrance in second year of MAS
- English language
- International (open to foreign students)
- Tuition fee MAE is € 4.000,- for one year
- Grade: MSc





## Structure

Entrance level: Bachelor or equivalent

First year (2 semesters)  
taught in English by CTU in Prague – Czech republic  
*(intensive course of French language on Institute Francais de Prague included in the CTU Programme)*

3<sup>rd</sup> semester

ENSTA / CTU / TUCH

HAN, Arnhem, The Netherlands  
taught in English

4<sup>th</sup> semester devoted to final thesis in an industrial or academic environment

**MASTER DEGREE IN AUTOMOTIVE ENGINEERING**

Master degree from 2 countries with respect to chosen specialisation in 3<sup>rd</sup> semester

# Programme focus

Programme focus on:

Vehicle Dynamics & Control

Control Systems Engineering

Vehicle Electronics & Intelligent Vehicle Systems

Alternative Power Trains





# Programme MAS (full-time)



# Lecturing semester – HAN

## August 2016 – February 2017

TOPICS	Contact hours	Personal work (estimation)	ECTS Credits
ADVANCED VEHICLE DYNAMICS + project	64	160	8
ADVANCE VEHICLE CONTROL + project	24	60	3
VEHICLE ELECTRONICS	24	60	3
CONTROL SYSTEM ENGINEERING + lab assignment	56	112	6
AUTOMOTIVE MANAGEMENT + assignments	32	80	4
INTELLIGENT VEHICLE HIGHWAY SYSTEMS + assignments	32	52	3
ALTERNATIVE POWER TRAINS	24	60	3
TOTAL	256	584	30





# Thesis semester – HAN

February 2017 – July 2017

- Project in industrial or academic environment
- Dedicated high level assignment
- In Netherlands or foreign country
- Value 30 ECTS
- End report & thesis defense



## Thesis Projects

- **Assignments at:**

<b>Volvo</b>	<b>Göteborg-S</b>
<b>Continental</b>	<b>Germany</b>
<b>Ford</b>	<b>Genk-B/Köln-D</b>
<b>Ricardo</b>	<b>Prague- CZ</b>
<b>BMW</b>	<b>München-D</b>
<b>DAF Trucks</b>	<b>Eindhoven-NL</b>
<b>GoodYear</b>	<b>Luxembourg</b>
<b>SKF</b>	<b>Nieuwegein-NL</b>
<b>TNO</b>	<b>Helmond/Soesterberg-NL</b>
<b>Inalfa</b>	<b>Venray-NL</b>
<b>VDL Bova</b>	<b>Eindhoven-NL</b>
<b>e-Traction</b>	<b>Apeldoorn-NL</b>
<b>SAF Holland</b>	<b>Germany</b>
<b>Scania</b>	<b>Sweden</b>
<b>Bosch</b>	<b>Netherlands/Germany</b>
<b>HAN Research</b>	<b>Arnhem-NL</b>





## Job profile for graduates

**Position as design/development engineer or project manager in international operating automotive companies and suppliers at professional engineering level.**

- Software and test engineering
- Development and design engineering
- Applied research
- Production
- Management
- Sales engineering, customer service

## Research at HAN Automotive

- Prof. Pauwelussen: Vehicle Dynamics & Smart Vehicles



- Prof. Veenhuizen: Mechatronics & Alternative Power Trains



# HAN-Automotive: Projects





## Lab Automotive Engineering







## Lab Automotive Engineering

### Road simulator



## **HAN support program**

- Introduction week new students end of august
- Travelling support, visa & residence permit
- Arranging accommodation in Arnhem
- Subscription / administration support
- Subscription of HAN intranet / scholar
- Supply of books & readers
- Erasmus support
- Cultural events international students
- Facilitation of sport activities
- Thesis assignment support through HAN contacts in many countries





# Welcome to HAN Automotive

# Master of Automotive Systems





## Thank you for your attention



### Contact

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