

***Practical Information***

***for students of the Master Engineering Systems***

[](https://www.google.nl/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&cad=rja&uact=8&ved=2ahUKEwi_ofmsjZHhAhVFIlAKHV5UBiEQjRx6BAgBEAU&url=https://www.whereivf.com/ivf-country-month-spain/practical-information-spain/&psig=AOvVaw1GPRz_YhSKp_dZ1upRuCQF&ust=1553184465696485)

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# INTRODUCTION

**Dear student,**

A warm welcome to the HAN Master Degree Program Engineering Systems! In this guide we have gathered practicalities you need for your degree program at the HAN.

‘Translation of research into products’ is the focus of the program, meeting the demands of industry as well as other research institutions that are active in applied research and product development in the engineering area. There is a real need for goal oriented professionals who are able to translate research into products relevant to market and society. During the course you will gain the skills and knowledge to plan and carry out research/development projects that contribute to the development of products. Scientific knowledge and skills, project management and communication skills are trained during the program.

On the one hand the program is designed to enable (experienced) technicians to combine their present work with study. By working on realistic assignments and case studies in the program, students and employers have direct and tangible advantages in the professional practice.

On the other hand the program enables future technicians to work on their qualifications. The acquired qualification enables graduates to start or to continue their career as a linking pin between technicians and (scientific) management, and between different departments.

Students and alumni describe the master programs as high quality, contemporary and tailor-made programs which kick-start their careers. The accreditation score in 2020, in which these master programme was evaluated in terms of aims, content, organization, staff, facilities, quality assurance and results, underscore this description. That means that each level, teachers, educational staff and the program manager aim for the best education they can offer. Students can participate actively, so that their voices are heard and their education is continuously improving.

Naturally, any organization requires some rules and regulations. In the Degree Statute (to be found on Onderwijs Online, see page 11), you will find extensive information about the setup of your degree program.

On the next pages, you will find all the practical information we think you need regarding where to find what. We are curious to know how you experience this practical guide. Suggestions for improvement are always welcome! Do not hesitate give us suggestions and comments via [educationoffice.tm@han.nl](mailto:educationoffice.tm@han.nl) or meet us in person (contact names can be found in the Degree Statute and on page 14).

We wish you the best of luck with your studies!

Teachers and staff Master Engineering Systems

# HOW IS THE DEGREE PROGRAM STRUCTURED / WHICH MODULES?

The program is thematically grouped into so-called modules. In each module learning outcomes concerning knowledge, applying knowledge, the ability to make choices and your professional skills are examined.

Your master program consists of 5 modules, each of which has its own character. The modules Systems Modelling and Applied Control (both 15 EC) and the module Major Project (30 EC) are mandatory for all students.

The table below shows the structure of the elective modules in each track. You can choose two modules (together 30 credits). It is not necessary to choose these from one study track. More combinations are possible. Some combinations are not possible, for instance when the timetable for classes shows that they are offered on the same day of the week.

|  |  |
| --- | --- |
| Tracks | Elective modules |
| ***AS***  *Automotive Systems: Green mobility*  *Automotive Systems: Smart Mobility* | Advanced Vehicle Dynamics  Electric Hybrid & Fuel Cells Powertrains  Hydrogen technology  Smart Infrastructure  Smart Vehicles  Sustainable Fuel Engines and Emissions |
| ***CS***  *Control Systems* | Big Data & Small Data  Advanced Controller Design |
| ***ES***  *Embedded Systems* | Big Data & Small Data  Distributed Systems |
| ***LE***  *Lean Engineering* | Process Development  Product Development |
| ***SE***  *Sustainable Energy* | Big Data & Small Data  Hydrogen technology  Smart Power Supply  Sustainable Energy Systems (mandatory for SE) |

# WHEN DO WE OFFER THE MODULES?

**The modules are offered according to the following scheme for your 1st and 2nd Semester:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Semester August - January | | | | |
| Monday | Tuesday | Wednesday | Thursday | Friday |
| Systems Modelling  Big Data & Small Data | Advanced Vehicle Dynamics  Process Development | Applied Control | Electric Hybrid & Fuel Cells Powertrains  Smart Vehicles  Sustainable Energy Systems | Mathematics |
|  |  | Term 1 and 2: Lessons How to write a thesis |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Semester February - July | | | | |
| Monday | Tuesday | Wednesday | Thursday | Friday |
| Systems Modelling  Big Data & Small Data  Hydrogen Technology | Smart Vehicles  Product Development  Sustainable Energy Systems | Applied Control  Advanced Vehicle Dynamics  Distributed Systems  Sustainable Fuel, Engines and Emissions | Electric Hybrid & Fuel Cells Powertrains  Smart Infrastructure  Process Development  Smart Power Supply  Advanced Controller Design |  |
|  |  | Term 3 and 4: Lessons How to write a thesis |  |  |

**Rules and Instructions for online lessons**

Before the online lessons/workshops

* Be on time
* Make sure you have a quiet environment with as little background noise and movement as possible.
* Make sure your camera and microphone are working. If possible, use a headset or earphones. This will prevent an echo from forming and will filter out any unnecessary background noise.
* If you have to give a presentation, test beforehand whether screen sharing or your presentation works properly. This way a lesson runs smoothly and everything takes less time.
* Make sure you are dressed. This makes it easier to turn on your camera. It is also good for your daily rhythm to get dressed every morning and you are more productive during the day.
* Be prepared! If you are not prepared, do not disturb the lesson.

During the online lessons/workshops

* At the start of the lesson, say hello and show your face. This way everyone knows you are there and they can hear your voice.
* If you get a question, turn on your camera. This way everyone can see who is talking and the lesson becomes a little more personal.
* Leave your camera on as much as possible. When a presentation is given or a screen is shared, you can leave your camera off for a while.
* Minimize distractions. Pay attention to the lesson as you always would. Put your phone away or put it on silent mode.
* Put your microphone on mute when someone else is talking. This keeps background noise to a minimum and everyone can be heard. When you are asked to do something, you should of course switch it on.
* Try to move around or take a walk between classes. It is important to include off-screen time. This is better for your eyes and your body.

# SCHEDULES / TIME TABLES

## **General**

Each academic year covers 2 semesters, and each semester comprises 2 terms. Each term consists of lectures, and finishes with an exam week after 8 weeks.

The [HAN time schedule MES](#__RefHeading___Toc3717_322311562) can be found on the next page.

## **Your timetable each term**

A handy tool for viewing your timetable each week can be found on the HAN4ME website.

<https://www1.han.nl/insite/student-support/content/HAN4me.xml?sitedir=/insite/student-support> or

<https://www1.han.nl/insite/student-support/Timetables.xml?layout=standard&sitedir=/insite/student-support>

Period **01** 09:00 – 09:45 Possible start for fulltime students

Period **02** 09:45 – 10:30

Period **03** 10:45 – 11:30

Period **04** 11:30 – 12:15

Period **05** 12:15 – 13:00

Period **06** 13:00 – 13:45 Start lessons part time students / fulltime students

Period **07** 13:45 – 14:30

Period **08** 14:30 – 15:15

Period **09** 15:30 – 16:15

Period **10** 16:15 – 17:00

Period **11** 17:00 – 17:45 Pause

Period **12** 17:45 – 18:30

Period **13** 18:30 – 19:15

Period **14** 19:15 – 20:00

Period **15** 20:00 – 20:45

Period **16** 20:45 – 21:30

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **MES timetable 2021 - 2022** | | | | | | |
| **Week** | **Monday** | **Term** | **Lectures** | **remarks** | **Exam board meetings** | **Major project**  **hand in and defences** |
| 35 | 30.08 | 1.1 | Lectures |  |  |  |
| 36 | 06.09 | 1.2 | Lectures |  |  | 08.09: hand in thesis |
| 37 | 14.09 | 1.3 | Lectures | Info session degree statute | 16.09 |  |
| 38 | 20.09 | 1.4 | Lectures |  |  |  |
| 39 | 27.09 | 1.5 | Lectures |  | 30.09 | 29.09: defences  29.09: hand in thesis |
| 40 | 04.10 | 1.6 | Lectures | 08.10: Diploma Ceremony |  |  |
| 41 | 11.10 | 1.7 | Lectures | Info Session Elective Modules |  |  |
| 42 | 18.10 | 1.8 | Lectures |  | 21.10 | 19/20.10: defences |
| 43 | 25.10 |  |  | Autumn holidays |  |  |
| 44 | 01.11 | 1.9 | Exams |  |  | 03.11: hand in thesis |
| 45 | 08.11 | 2.1 | Lectures | Info Session Major Project |  |  |
| 46 | 15.11 | 2.2 | Lectures |  |  |  |
| 47 | 22.11 | 2.3 | Lectures |  | 25.11 | 23/24.11: defences |
| 48 | 29.11 | 2.4 | Lectures | Reviews exams 1.9 |  | 02.12: hand in thesis |
| 49 | 06.12 | 2.5 | Lectures |  |  |  |
| 50 | 13.12 | 2.6 | Lectures |  |  |  |
| 51 | 20.12 | 2.7 | Lectures |  | 23.12 | 22.12: defences  22.12: hand in thesis |
| 52 | 27.12 |  |  | Christmas Holidays |  |  |
| 01 | 03.01 |  |  | Christmas Holidays |  |  |
| 02 | 10.01 | 2.8 | Lectures |  |  |  |
| 03 | 17.01 | 2.9 | Exams |  |  |  |
| 04 | 24.01 | 2.10 | Exams |  | 27.01 | 25/26.01: defences |
| 05 | 31.01 | 3.1 | Lectures |  |  | 02.02: hand in thesis |
| 06 | 07.02 | 3.2 | Lectures |  |  |  |
| 07 | 14.02 | 3.3 | Lectures | Info session degree statute |  |  |
| 08 | 21.02 | 3.4 | Lectures | Reviews exams 2.9 | 24.02 | 22/23.02: defences |
| 09 | 28.02 |  |  | Spring Holidays |  |  |
| 10 | 07.03 | 3.5 | Lectures | 11.03: Diploma Ceremony |  | 09.03: hand in thesis |
| 11 | 14.03 | 3.6 | Lectures |  |  |  |
| 12 | 21.03 | 3.7 | Lectures | Info Session Elective Modules |  |  |
| 13 | 28.03 | 3.8 | Lectures |  | 31.03 | 29/30.03: defences |
| 14 | 04.04 | 3.9 | Exams |  |  | 06.04: hand in thesis |
| 15 | 11.04 | 4.1 | Lectures | 15.04: Good Friday |  |  |
| 16 | 18.04 | 4.2 | Lectures | 18.04: Easter Monday  Info Session Major Project |  | 20.04: hand in thesis (defences 17/18.05) |
| 17 | 25.04 | 4.3 | Lectures | 27.04: Kings Day | 28.04 | 26.04: defences |
| 18 | 02.05 |  |  | May Holidays |  |  |
| 19 | 09.05 | 4.4 | Lectures | Reviews exams 3.9 |  |  |
| 20 | 16.05 | 4.5 | Lectures |  | 19.05 | 17/18.05: defences |
| 21 | 23.05 | 4.6 | Lectures | 26.05: Ascension Day |  |  |
| 22 | 30.05 | 4.7 | Lectures |  |  | 01.06: hand in thesis |
| 23 | 06.06 | 4.8 | Lectures | 06.06: Whit Monday |  |  |
| 24 | 13.06 | 4.9 | Exams |  |  | 15.06: hand in thesis  (defences 05/06.07) |
| 25 | 20.06 | 4.10 | Exams |  | 23.06 | 21/22.06: defences |
| 26 | 27.06 | 4.11 | Exams |  |  |  |
| 27 | 04.07 | 4.12 |  | Reviews exams 4.9  08.07: Diploma Ceremony | 07.07 | 05/06.07: Defences |
| 28 | 11.07 |  |  | Summer Holidays till 15.08 |  |  |
| 29 | 15.08 | 0 | Exams |  |  | 15.08: hand in thesis |
| 30 | 22.08 | 0 | Exams |  | 25. + 31.08 | 22 – 26.08: defences |

# EXAMS

## **Exam opportunities**

On the last pages of this guide (appendix 1) you can find the exam opportunities per module for the Master Engineering Systems.

According to Part 2 of the Degree Statute you have 2 opportunities a year for the exams during the theoretical phase. Should you need a third opportunity: Apply to the Exam Board. You must also apply to the Exam Board for exemptions and extensions.

## **Exam schedules**

In your time table written exams can also be found. Home taken exams can be found in #OO (chapter 1: schedule).

As you may have noticed there is often a large time lapse between an exam and the re-examination. This is a conscious decision on our part. The gap gives you enough time to review your exam, consult the lecturer, and revise the materials sufficiently. If you have failed an exam, you need time to revisit the learning material regularly, so that you are better able to retain it. Sometimes you can also gain completely new insights when you take a break from the learning materials. This also provides you as first year student more time to adjust to the pace and depth of higher education vocational training. Also, attending the follow-up programs while revising for a re-sit may help you to better process the learning material for the failed exam.

## **Registration re-exams**

You have to register for the re-exams. The Education Office will inform you of the date of the deadline for registration. You must register in Forms (part of Microsoft 365).

**Rules and Instructions for online written exams**

All the information about rules and instructions for online written exams can be found on Onderwijs Online (general information) in

- Get ready for your exam   
- Student Instructions ANS  
- Privacy

It is very important to read these documents at least one week before the exams are scheduled.

**Rules and Instructions for written exams organized at HAN**

* You have to be present 10 minutes in advance of the official start of the exam. After the official start you will not be allowed to enter.
* You have to present an ID (HAN-card, ID-card, driving permit, train-pass) at the registration desk and sign the Attendance List.
* You may leave the exam-room after 30 minutes have passed, until fifteen minutes before the official end of the exam.
* Mobile phones must be switched off, smart-watches are not allowed. These items must be placed with your jacket and bag at the front of the room;
* Drinks may only be consumed from a re-sealable bottle; food items are allowed during exams that last longer than 150 minutes; eating must be without noise.
* Bathroom visits are allowed if the exam lasts longer than 90 minutes.
* The permitted resources during this exam are printed on the exam-envelop; you may not use anything other than what is mentioned on the envelope;
* You have to write your name on each answer sheet. On the cover page you write your name and student number;
* You must use official HAN-paper for answering questions/problems. Scrap paper will not be evaluated.
* All scrap paper must be handed in, also the printed exam must be handed in.
* You must put all the papers in the file that is given to you, and place it at the right corner of your desk.
* You must place your HAN-card on the file. The supervisor will check your pass against the name on your exam.
* At the end of the exam-time the invigilator will collect your work from your desk.
* The Board of Examiners will be informed of any irregularities.

The complete rules can be found in the Degree Statute Part 4, Appendix 2.

# TOOLS AND SYSTEMS TO USE

## **Laptop specifications**

## The laptop specifications are as follows:

|  |  |
| --- | --- |
| Processor | Intel Core i5 (or higher) or comparable AMD-processor |
| RAM memory | 8 GB or more |
| Storage | 512 GB or more, preferably with SSD or a combination SSD/HDD |
| Network | WiFi & Wired LAN |
| Multimedia | Webcam\* (possibly integrated), microphone and loudspeakers |
| Operating system | Microsoft Windows 10 |

You have a Macbook  
It's OK to use a Macbook, as long as it can run Windows 10 (e.g. using a dual-boot or in a virtual machine).

**TIP: student software licenses**  
Student software licenses for Microsoft Windows and Microsoft Office can be purchased inexpensively for HAN students via [www.surfspot.nl](http://www.surfspot.nl/).

**\*You need a WEBCAM and microphone to participate in online lessons and exams.**

**OnderwijsOnline**

During your degree program, you will frequently consult ‘Onderwijs Online’ <https://onderwijsonline.han.nl/>This is thé electronic learning environment for readers, PowerPoints, assignments, dummy exams and video support.

On OnderwijsOnline you will also find general information for instance about the exam regulations and of course the Degree Statute. The online tool is generally self-explanatory and has its own help files and manuals. However, the Education Office staff are available to help if you encounter problems, for example if certain course content is not available. Visit us in R26 A0.09 or e-mail us at [educationoffice.tm@han.nl](about:blank)

## **Handin app**

Home taken exams are to be handed in in Handin. More information can be found on HAN Insite or OnderwijsOnline.

## **Alluris**

Alluris is the online information and registration system where you can find information about your study contract with your chosen modules and your exam results. Please check regularly that all your marks have been added correctly in Alluris.

## **ANS**

Online written exams are conducted in <https://ans.app/landing>, an online exam/testing/ grading system.

## **Proctorio**

Online proctoring is a tool to take exams in a controlled way. Because of the technique used, different ways of fraud are prevented. In addition, the system supports detection and reports/analyses that can be done afterwards. Online proctoring is possible for online examinations.

Proctoring is only used during an exam and does not have access to your computer.

Do you have an examination that uses online proctoring? For more information about privacy take a look at the document Privacy.

# WHERE TO FIND STUDY INFORMATION YOU NEED

## **Study and multimedia centre**

Higher education at HAN also involves research at a higher level. The HAN library in Ruitenberglaan 31 is called the ‘Study and Multimedia Centre’. It offers plenty of useful resources for research by Engineering students. The Study and Multimedia Centre website (<https://specials.han.nl/sites/studycentres>) offers various resources such as the following:

HANQUEST

This search engine allows access to materials available in the HAN Study and Multimedia Centre collection and also databases containing scientific journal articles (e.g. Science Direct, Wiley and Sprinkerlink). These commercial databases offer edited and high quality publications not found via Google.

DATABASES

Quality research requires valid databases for your literature studies. A HAN list is given below of the individual databases, such as NEN Connect, HBO Kennisbank and ISSO.

HAN INFORMATION SPECIALISTS

If you run into trouble and/or need help searching and finding information, the librarians or information specialists at the Study and Multimedia Centre at Ruitenberglaan 31 are available to help you. Simply make an appointment. In OnderwijsOnline you can find them too:

<https://onderwijsonline.han.nl/elearning/content/RDp4O3Dp>

# PRACTICALITIES / CONTACT INFORMATION

## **Education Office Master Engineering Systems**

We are here to help you with any questions related to your study progress, exam opportunities, procedures, theoretical phase, etc. Please visit us in R26 A0.09 or e-mail us at educationoffice.tm@han.nl. We are open Monday – Thursday from 9.00 – 17.00 hrs.

We are happy to help you!

Kea Bouwman – programme manager

Seline Konings – Graduation procedure

Shirley Toisuta-Bergeman – administrative assistant

Esther Uwland - Modules, registrations, theoretical phase

Jeroen van Tongeren - Study Coach

## **Graduation procedure**

For questions relating to your Major Project after the theoretical phase you can contact [finalthesis@tm@han.nl](mailto:finalthesis@tm@han.nl).

## **Study Coach**

If you have questions or concerns about your study progress, you can talk to your study coach. You can also ask the staff of the Education Office; they can provide you with information, or assist you in making an appointment with your study coach.

Our study coaches are:

Seline Konings,

Jeroen van Tongeren,

Keun Young van Sliedrecht and

Esther Uwland.

## **Exam Board**

If you need to send a request to the Exam Board, you can send an e-mail to [examboard.tm@han.nl](mailto:examboard.tm@han.nl).

## **Your HAN e-mail address**

Your e-mail address is [{yourname}@student.han.nl](mailto:%7byourname%7d@student.han.nl). We will use your HAN email address to communicate with you for anything related to your studies.

**Communication channels**

The Education Office will regularly inform you about important study-related issues by email (newsletter). The Education Office may also schedule regular (online) info sessions in MS Teams.

## **International Office**

The International Office has provided you with a brochure with information about living in the Netherlands. You can reach them at [internationaloffice@han.nl](mailto:internationaloffice@han.nl). If necessary the staff of the Education Office can help you to make an appointment.

## **Immigration**

The Immigration office can help you with any questions relating to your Visa, health insurance, etc. You can reach them at [immigration@han.nl](mailto:immigration@han.nl).

## **CIC Desk**

The CIC can help you with questions regarding your tuition fee, payments, etc. You can reach them at [CICdesk@han.nl](mailto:CICdesk@han.nl).

## **Student Enquiry Desk**

In the hall of R26 is the Student Enquiry Desk. There you can ask any question about the practical side of studying at HAN. You can also ask for proof of enrolment or transcripts. You can e-mail them at [studentaffairs@han.nl](mailto:studentaffairs@han.nl) or visit them in the main reception at R26.

## **Service Desk**

The Service Desk is the contact point for all facility and IT questions like applications, HAN card, the technical side of systems and for reservations and complaints at HAN. You can reach the Service Desk:

e-mail:[servicedesk@han.nl](mailto:servicedesk@han.nl)

phone:(024) 353 16 66 (Monday to Friday, from 8.00 to 19.00)location:Ruitenberglaan 31 Arnhem, C-wing, room C0.23, (Monday to Friday 8.00 to 17.00) The ServiceDesk is also available during holiday periods by e-mail at [servicedesk@han.nl](mailto:servicedesk@han.nl) or by phone (024-3531666).

# STUDENT MEETING POINTS AT THE HAN

## **Arnhem Student Sports**

Arnhem Student Sports is an organisation that manages municipal sport accommodations in the city. With a student sports card, you can enjoy your sport at one of the accommodations for little money. The card is available for students of all institutes of higher learning in Arnhem.

More information about Arnhem Student Sports can be found on the website: <https://www.sportinarnhem.nl/studenten>

## **SAM**

Sam is the online HAN news medium for students and staff. Visit Sam to access films and fun background articles about past or future events at HAN. [https://medium.com/sambyhan](about:blank)

**ISA**

ISA is an organisation run by students for students. ISA´s goal is to help new students to integrate into the international community at HAN. [https://www1.han.nl/insite/student-support/content/International\_Student\_Association\_ISA\_.xml?a=b&sitedir=self&profiel\_select=Insite](about:blank)

**Project group against Loneliness - Living room ISB at HAN**The project group at International School of Business has created a living room for these students in the ‘base camp’, a room in the building at Ruitenberglaan 31 on the Arnhem campus. No lessons are given there. Master Engineering Systems students are also welcome. <https://hanuniversity.com/en/news/2021/03/international-students-welcome-in-living-room/>

**Arnhem Student Point**

This is a place where you can just be, a meeting point for students. [www.arnhemstudentpoint.nl](about:blank)

# Appendix 1: Exam opportunities per module for the Master Engineering Systems:

**Exam opportunities Master Engineering Systems:** According to the degree statute (part 2) you have two opportunities each academic year to take an exam or modular exam.

| **Subject** | **Term 1** | **Term 2** | **Term 3** | **Term 4** | **MP / CS re exam** | **HTE / WE**  **re exam** | **Takes place on/ according to** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Systems Modelling** | | | | | | | |
| M SM AP | 1.9 |  | 3.9 |  |  | August | Monday |
| M SM IM WE | 1.9 |  | 3.9 |  |  | August | Monday |
| M SM PMS HTE | 1.9 |  | 3.9 |  |  |  | Schedule #OO, grading app |
| M SM EBM WE |  | 2.9 |  | 4.9 |  | August | Monday |
| M SM SI HTE |  | 2.9 |  | 4.9 |  |  | Schedule #OO, grading app |
| M SM MP PP | 1.9 | 2.2 | 3.9 | 4.2 |  |  | Monday |
| M SM MP RP |  | 2.9 / 2.10 |  | 4.9 / 4.10 | 4.11 / 4.12 |  | Report: schedule #OO, grading app,  Presentation: Monday |
|  |  |  |  |  |  |  |  |
| **Applied Control** |  |  |  |  |  |  |  |
| M AC FC WE | 1.9 |  | 3.9 |  |  | August | Wednesday |
| M AC FC HTE |  | 2.9 |  | 4.9 |  |  | Schedule #OO, grading app |
| M AC ACS HTE |  | 2.9 |  | 4.9 |  |  | Schedule #OO, grading app |
| M AC CI HTE |  | 2.9 |  | 4.9 | 4.11 / 4.12 |  | Schedule #OO, grading app |
| M AC MSO WE | 1.9 |  | 3.9 |  |  | August | Wednesday |
| M AC MP |  | 2.9 / 2.10 |  |  | 4.11 / 4.12 |  | Report: schedule #OO, grading app, Presentation: Wednesday |
|  |  |  |  |  |  |  |  |
| **Major project** |  |  |  |  |  |  |  |
| M MAJP MWP OE |  | 2.9 |  | 4.9 |  |  | schedule #OO |
| Major project |  |  |  |  |  |  | According to time schedule MES on #OO |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| **Elective modules** |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| **Advanced Controller Design** | | | | | | | |
| M ACD T HTE1 |  |  | 3.9 | 4.4 |  |  | Schedule #OO, grading app |
| M ACD T HTE2 |  |  |  | 4.9 |  | August 15 | Schedule #OO, grading app |
| M ACD CS |  |  |  | 4.6 | 4.11 / 4.12 |  | Schedule #OO, grading app |
| M ACD MP |  |  |  | 4.9 / 4.10 | 4.11 / 4.12 |  | Report: schedule #OO, grading app,  Presentation: Thursday |
|  | | | | | | | |
| **Advanced Vehicle Dynamics** | | | | | | | |
| M AVD WE | 1.9 |  | 3.9 |  |  | August | Term 1: Tuesday /  Term 3: Wednesday |
| M AVD OE |  | 2.9 | 3.9[[1]](#footnote-1) | 4.9 |  | August | Schedule #OO |
| M AVD CS |  | 2.9 | 3.9 | 4.9 | 4.11 / 4.12 |  | Schedule #OO, grading app |
| M AVD MP |  | 4.9 / 4.10 | 3.9 | 4.9 / 4.10 | 4.11 / 4.12 |  | Report: schedule #OO, grading app, Presentation:  Term 2: Tuesday, Term 4: Wednesday |
|  |  |  |  |  |  |  |  |
| **Big Data & Small Data** | | | | | | | |
| M BDSD T HTE1 | 1.9 |  | 3.9 |  |  | August 15 | Schedule #OO, grading app |
| M BDSD T HTE2 |  | 2.9 |  | 4.9 |  | August 15 | Schedule #OO, grading app |
| M BDSD CS |  | 2.9 |  | 4.9 | 4.11 / 4.12 |  | Schedule #OO, grading app |
| M BDSD MP |  | 2.9 / 2.10 |  | 4.9 / 4.10 | 4.11 / 4.12 |  | Report: schedule #OO, grading app, Presentation: Monday |
|  |  |  |  |  |  |  |  |
| **Distributed Systems** | | | | | | | |
| M DS HTE |  |  | 3.9 |  |  | August 15 | Schedule #OO, grading app |
| M DS OE |  |  |  | 4.9 |  | August | Wednesday |
| M DS CS |  |  |  | 4.6 | 4.11 / 4.12 |  | Schedule #OO, grading app |
| M DS MP PP |  |  | 3.9 | 4.2 |  |  | Schedule #OO, grading app |
| M DS MP RP |  |  |  | 4.9 / 4.10 | 4.11 / 4.12 |  | Report: schedule #OO, grading app, Presentation: Wednesday |
| **Electric hybrid & fuel cell powertrains** | | | | | | | |
| M EHFP HTE |  | 2.7 |  | 4.7 |  | August 15 | Schedule #OO, grading app |
| M EHFP WE 1 | 1.9 |  | 3.9 |  |  | August | Thursday |
| M EHFP WE 2 |  | 2.9 |  | 4.9 |  | August | Thursday |
| M EHFP CS |  | 2.1 |  | 4.1 | 4.11 / 4.12 |  | Schedule #OO, grading app  Defence: Thursday |
| M EHFP MP |  | 2.9 / 2.10 |  | 4.9 / 4.10 | 4.11 / 4.12 |  | Report: schedule #OO, grading app, Presentation: Thursday |
|  |  |  |  |  |  |  |  |
| **Hydrogen Technology** | | | | | | | |
| M HT2 WE1 |  |  | 3.9 |  |  | August | Monday |
| M HT2 WE2 |  |  |  | 4.9 |  | August | Monday |
| M HT2 HTE |  |  |  | 4.6 |  | August 15 | Schedule #OO, grading app |
| M HT2 CS |  |  |  | 4.9 | 4.11 / 4.12 |  | Schedule #OO, grading app  Defence: Monday |
| M HT2 MP |  |  |  | 4.9 / 4.10 | 4.11 / 4.12 |  | Report: schedule #OO, grading app, Presentation: Monday |
|  |  |  |  |  |  |  |  |
| **Process Development** | | | | | | | |
| M PcD OD WE | 1.9 |  | 3.9 |  |  | August | Semester 1: Tuesday / Semester 2: Thursday |
| M PcD OPC WE |  | 2.9 |  | 4.9 |  | August | Semester 1: Tuesday / Semester 2: Thursday |
| M PcD CS |  | 2.9 |  | 4.9 | 4.11 / 4.12 |  | Semester 1: Tuesday / Semester 2: Thursday |
| M PcD MP |  | 2.9 / 2.10 |  | 4.9 / 4.10 | 4.11 / 4.12 |  | Report: schedule #OO, grading app  Presentation: Tuesday |
|  |  |  |  |  |  |  |  |
| **Product Development** | | | | | | | |
| M PdD PD WE |  |  | 3.9 |  |  | August | Tuesday |
| M PdD PPD WE |  |  |  | 4.9 |  | August | Tuesday |
| M PdD CS |  |  |  | 4.9 | 4.11 / 4.12 |  | Report: schedule #OO, grading app |
| M PdD MP PP |  |  | 3.9 | 4.2 |  |  | Report: schedule #OO, grading app |
| M PdD MP RP |  |  |  | 4.9 / 4.10 | 4.11 / 4.12 |  | Report: schedule #OO, grading app, Presentation: Tuesday |
|  |  |  |  |  |  |  |  |
| **Smart Infrastructure** | | | | | | | |
| M SI T WE |  |  | 3.9 |  |  | August | Thursday |
| M SI CS |  |  |  | 4.6 | 4.11 / 4.12 |  | Schedule #OO, grading app |
| M SI MP PP |  |  | 3.9 | 4.2 |  |  | Schedule #OO, grading app |
| M SI MP |  |  |  | 4.9 / 4.10 | 4.11 / 4.12 |  | Report: schedule #OO  Presentation: Thursday |
|  |  |  |  |  |  |  |  |
| **Smart Power Supply** | | | | | | | |
| M SPS EM HTE |  |  |  | 4.9 |  | August 15 | Schedule #OO, grading app |
| M SPS PC HTE |  |  | 3.9 |  |  | August 15 | Schedule #OO, grading app |
| M SPS PQ WE |  |  |  | 4.9 |  | August | Thursday |
| M SPS AM WE |  |  | 3.9 |  |  | August | Thursday |
| M SPS MP |  |  |  | 4.9 / 4.10 | 4.11 / 4.12 |  | Report: schedule #OO  Presentation: Thursday |
|  |  |  |  |  |  |  |  |
| **Smart Vehicles** |  |  |  |  |  |  |  |
| M SV T WE1 | 1.9 |  | 3.9 |  |  | August | Semester 1: Thursday / Semester 2: Tuesday |
| M SV T WE2 |  | 2.9 |  | 4.9 |  | August | Semester 1: Thursday / Semester 2: Tuesday |
| M SV CS |  | 2.6 |  | 4.6 | 4.11 4.12 |  | Schedule #OO, grading app |
| M SV MP PP | 1.9 | 2.2 | 3.9 | 4.2 |  |  | Schedule #OO, grading app |
| M SV MP |  | 2.9 / 2.10 |  | 4.9 / 4.10 | 4.11 / 4.12 |  | Report: schedule #OO, Presentation:  Semester 1: Thursday Semester 2: Tuesday |
|  |  |  |  |  |  |  |  |
| **Sustainable Energy Systems** | | | | | | | |
| M SES T WE1 | 1.9 |  | 3.9 |  |  | August | Semester 1: Thursday  Semester 2: Tuesday |
| M SES T WE2 |  | 2.9 |  | 4.9 |  | August | Tuesday |
| M SES T HTE |  | 2.9 |  | 4.9 |  | August 15 | Tuesday |
| M SES CS |  | 2.9 |  | 4.9 | 4.11 / 4.12 |  | Tuesday |
| M SES MP |  | 2.9 / 2.10 |  | 4.9 / 4.10 | 4.11 / 4.12 |  | Report: schedule #OO  Semester 1: Thursday / Semester 2: Tuesday |
|  |  |  |  |  |  |  |  |
| **Sustainable Fuel, Engines and Emissions** | | | | | | | |
| M SFEE HTE |  |  |  | 4.6 |  | August 15 | Schedule #OO, grading app |
| M SFEE WE 1 |  |  | 3.9 |  |  | August | Wednesday |
| M SFEE WE 2 |  |  |  | 4.9 |  | August | Wednesday |
| M SFEE CS |  |  | 3.9 |  | 4.11 / 4.12 |  | Schedule #OO, grading app |
| M SFEE MP |  |  |  | 4.9 / 4.10 | 4.11 / 4.12 |  | Report: schedule #OO  Presentation: Wednesday |

1. Re exam MAE [↑](#footnote-ref-1)