

# ANNUAL REPORT 2024 – 2025

## EXAMINATION BOARD OF MECHANICAL ENGINEERING & SUSTAINABLE ENERGY TECHNOLOGY

05-09-2025

UNIVERSITY OF TWENTE.



# IMPRINT

MANAGEMENT

Examination Board of Mechanical Engineering & Sustainable Energy Technology

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# PREFACE

As laid down in the Wet op het hoger onderwijs en wetenschappelijk onderzoek— i.e. the Dutch Act on Higher Education and Scientific Research (WHW 7.12b-5), the Examination Board of the BSc & MSc programmes Mechanical Engineering (ME) and the MSc programme Sustainable Energy Technology (SET), as part of the Faculty of Engineering Technology (ET) of the University of Twente, is required to annually report her activities.

In this annual report, the Examination Board ME/SET summarizes and accounts for its activities over the academic year

The Examination Board ME/SET defines the function of its annual reports as one of the means in a *Plan-Do-Check-Act* (PDCA) cycle. This annual report is based on factual and verifiable information, but not traceable to individuals.

# ABBREVIATIONS

BSc	Bachelor of Science
CELT	Centre of Expertise in Learning and Teaching (of the University of Twente)
CROHO	Centraal Register Opleidingen Hoger Onderwijs — Central Register of Higher Education Programs
EER	Education and Examination Regulation
ET	Faculty of Engineering Technology
ISAT	Interuniversitair Statistisch Advies Team – i.e. a no longer active team which coined the abbreviation ISAT; a registration number (code) to identify a Dutch educational program
ME	Mechanical Engineering
MSc	Master of Science
PDCA	Plan-Do-Check-Act
SET	Sustainable Energy Technology
UT	University of Twente
VU	Vrije Universiteit Amsterdam
ME UT-VU	Co-location of the BSc ME program at the Vrije Universiteit (VU) Amsterdam
WHW	Wet op het hoger onderwijs en wetenschappelijk onderzoek – (The Dutch Act on) Higher Education and Scientific Research Act



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# 1 GENERAL

## 1.1 PROGRAMMES UNDER THE RESPONSIBILITY OF THE EXAMINATION BOARD ME/SET

The Examination Board ME/SET is responsible for the educational programmes:

- BSc Mechanical Engineering in Enschede, with co-location at the VU Amsterdam (ISAT code in CROHO: 56966),
- MSc Mechanical Engineering in Enschede (ISAT code in CROHO: 60439) and
- MSc Sustainable Energy Technology (ISAT code in CROHO: 60443).

## 1.2 MEMBERS OF THE EXAMINATION BOARD AND SUPPORT

In September 2019 the University of Twente and the Vrije Universiteit (VU) Amsterdam started a co-location of the BSc. programme in Mechanical Engineering hosted at the VU campus in Amsterdam. As both programmes have the same ISAT code in CROHO, complaints and requests by students in Enschede and in Amsterdam are (to be) handled in a uniform way by the Examination Board ME/SET. Therefore, the Examination Board ME/SET is composed of minimum one member who is affiliated with VU and active in one of the programmes covered by the Examination Board. For all members of the Examination Board, their respective appointment dates and regular terms (three to six years) are stated on Table 1.

Table 1: Members and support of the Examination Board ME/SET and their respective regular terms

Name	Role	Department	Appointment	3 years	6 years
Drs. Marleen de Haan	External Member	CES-CELT	01-09-2019	31-08-2022	31-08-2025
Ir. Marijn Zwier	Secretary	ET-DPM-IdPDE	01-09-2020	01-09-2023	31-08-2026
prof.Dr.-Ing. Bojana Rosic	Co-chairperson	ET-MS3-AMDA	01-10-2020	01-10-2023	30-09-2026
Dr. Yashar Hajimolana	Member	ET-TFE-TE	01-04-2024	01-04-2027	31-03-2030
prof.Dr.-Ing. Jutta Arens	Co-chairperson	ET-BE-EOST	05-04-2024	05-04-2027	04-04-2030
Dr. Joris van Heijningen	Member	UT-VU	01-04-2025	31-03-2028	31-03-2031
Dr. J.C.J. Koelemeij	Member	UT-VU	01-01-2023	Ended 31-03-2025	
<b>Registrars</b>					
Kristel Braakhuis LLM	Registrar	ET-SERVICES-EDU	01-09-2024	Infinite appointment	
Mia Lucas	Registrar	ET-SERVICES-EDU	01-09-2024	Infinite appointment	

## 1.3 CAPACITIES, TASKS, AND RESPONSIBILITIES OF THE EXAMINATION BOARD

The Dutch Act on Higher Education and Scientific Research (WHW, article 7.12) defines capacities, tasks and responsibilities of the Examination Board of ME/SET. Members of the Examination Board ME/SET are appointed by the dean of the Faculty of Engineering Technology (ET).

Additional tasks and responsibilities of the Examination Board ME/SET are laid down in the respective Education and Examination Regulations (EER) of the programs (see section 1.1).

## 1.4 MANDATES

The Examination Board ME/SET has delegated well defined tasks to other officials in the organization of the Faculty of Engineering Technology (ET) and the University of Twente (UT), to handle standard (student) requests, complaints, and situations that require standard and quick decisions. Mandates are documented in writing and archived. All decisions made by mandated staff are presented and discussed by the secretary at the meetings of the Examination Board ME/SET by means of a “decision list” and finally approved by the Examination Board. All non-mandated decisions are made by the Examination Board.

## 1.5 DOCUMENTATION AND ARCHIVING

Minutes, agendas, and other documents, such as mandates and decisions of/by the Examination Board are archived by the secretary of the Examination Board or the registrars on the shared Teams of the Examination Board, with restricted access only for members of the Examination Board. Decisions of the Examination Board are documented either in the minutes of the meetings of the of the Examination Board or in the so-called “decision list” (see section 1.4). Also, this list is archived in the Teams environment.

# 2 ACTIVITIES OF THE EXAMINATION BOARD

This section provides a brief overview of a the most relevant advisory and policy-related tasks, in addition to its regular tasks, that the Examination Board ME/SET fulfilled in the academic year 2024 – 2025.

## 2.1 MEETINGS

In the academic year 2024 – 2025, The Examination Board ME/SET had 11 regular meetings. Meetings have taken place in hybrid form, i.e. in person and using the online platform MS Teams for attendance of the VU representative from Amsterdam.

The chair of the Examination Board ME/SET attends meetings of the university wide *UT Assembly of Examination Boards Chairs*<sup>1</sup>. This assembly regularly discusses best practices of/for Examination Boards, as well as aims at harmonizing rules and guidelines of examinations and quality assurance, which overarch the various educational programs at the University of Twente.

## 2.2 STUDENT REQUEST, COMPLAINTS, AND CASES OF FRAUD

Students are required to use the webforms<sup>2,3</sup> on the website of the Examination Board to submit requests and complaints to be handled by the Examination Board. These webforms ensure that complete and detailed requests or complaints are submitted. The webforms also list the type of cases (requests and complaints) which do not fall under the responsibility of the Examination Board, but under the responsibility of other bodies, such as the Complaints Desk of the University of Twente.

Table 2 gives an overview of cases (requests, complaints, fraud) handled by the Examination Board ME/SET in the academic year 2024 – 2025.

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<sup>1</sup> [https://www.utwente.nl/en/examination-board/Platform\\_Examination\\_Boards/](https://www.utwente.nl/en/examination-board/Platform_Examination_Boards/)

<sup>2</sup> <https://www.utwente.nl/en/me/organisation/examination-board/Complaint%20Form/>

<sup>3</sup> <https://www.utwente.nl/en/me/organisation/examination-board/Request%20Form%20Master%20ME%20V1/>

Table 2: Overview of the number of cases handled and approved.

Category		Academic year			
		2022 – 2023	2023 – 2024	2024 – 2025	2025 – 2026
Bachelor assignment	<b>cases</b>	5	21	18	
	approved	0	13	7	
Cum laude	<b>cases</b>	0	8	13	
	approved		6	7	
Double exam	<b>cases</b>	8	0	0	
	approved	8	0		
Elective program	<b>cases</b>	0	5	3	
	approved		4	2	
Exemption	<b>cases</b>	11	60	57	
	approved	8	40	40	
Extension graduation	<b>cases</b>	39	36	40	
	approved	35	34	39	
Master ISP	<b>cases</b>	5	7	13	
	approved	4	6	11	
Minor	<b>cases</b>	14	13	38	
	approved	14	7	15	
Postpone degree / diploma	<b>cases</b>	0	3	2	
	approved		3	2	
Double degree	<b>cases</b>	5	2	13	
	approved	5	2	10	
Module 8 admission	<b>cases</b>	55	0	0	
	approved	26	0		
Master assignment	<b>cases</b>	12	14	22	
	approved	7	13	19	
Fraud*	<b>cases</b>	33	11	31	
	approved	15	4	19	
Extra resit	<b>cases</b>	28		91	
	approved	16		59	
Complaints	<b>cases</b>	4		8	
	approved	0		4	
Other	<b>cases</b>	33	11	64	
	approved	21	4	37	
<b>Total:</b>	<b>cases</b>	<b>252</b>	<b>191</b>	<b>413</b>	<b>0</b>
	approved	159	136	271	0

\* Fraud cases can involve groups of students, e.g., project groups. In those instances, a case is listed as one fraud case in the table.

## 2.3 DIPLOMAS AND CUM LAUDE

Figure 1 lists the number of students who were awarded a BSc or MSc degree (diploma), as well as the number of students who graduated *cum laude* – i.e., a degree “with distinction”. The Examination Board ME/SET targets that 5% to 10% of the students are awarded a degree “with distinction”.

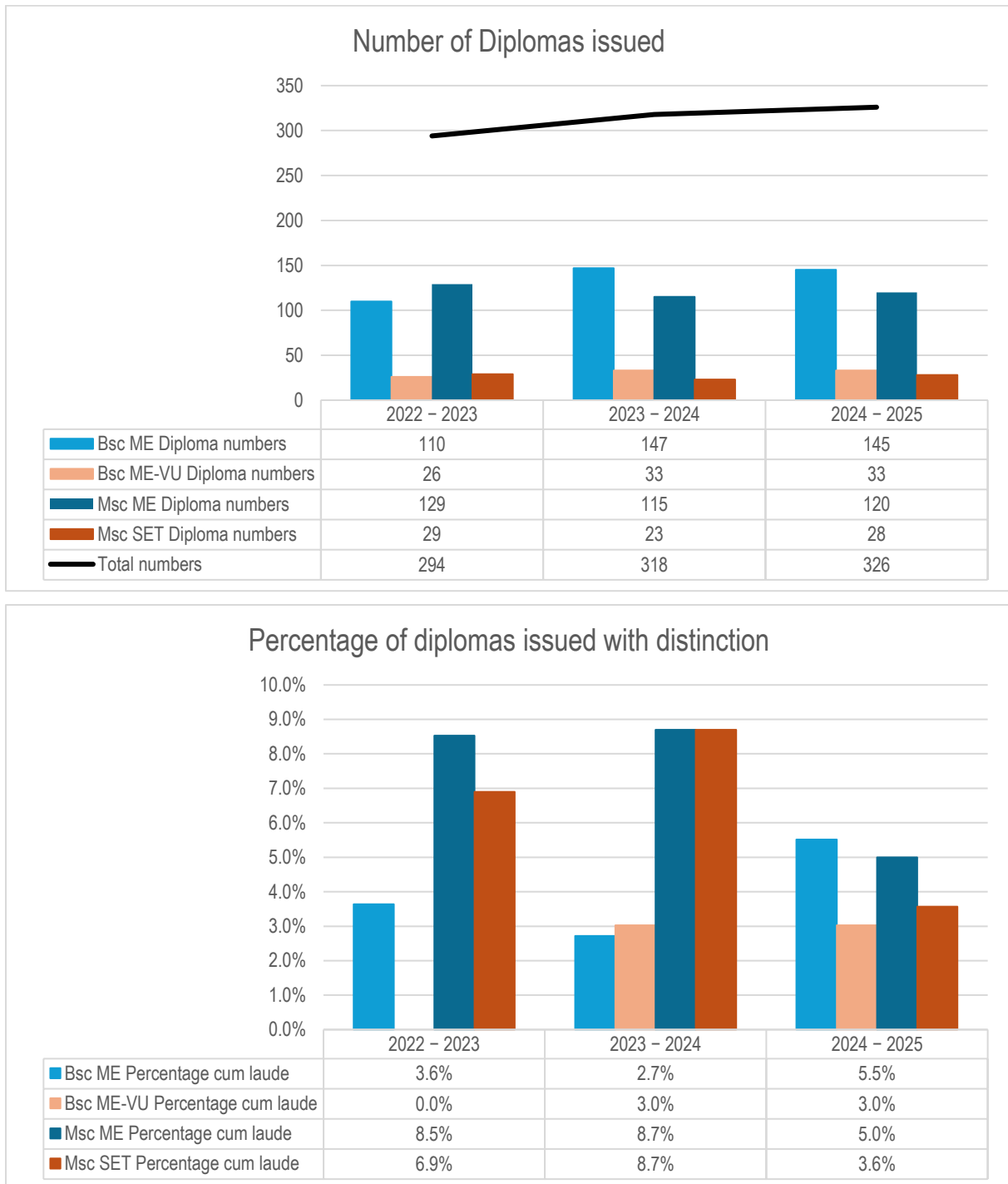


Figure 1: Number of BSc/MSc Diplomas issued and percentage of diplomas issued with distinction (‘cum laude’)

## 2.4 APPROVED EXAMINERS

### 2.4.1 Bachelor courses Mechanical Engineering UT (reference date 01.12.2024)

M	Course	Code	Examiner(s)
<b>1</b>	<b>Design and manufacturing</b>	<b>202300048</b>	
1	TIME	202300054	Schilder, J.P. (Jurjan)
1	Statics	202300049	Perdahcioglu, E.S. (Semih)
1	Modelling and Programming 1	202300050	Stoffels, G.G.M. (Genie)
1	Manufacturing Systems	202300052	Kogel - Polak, W. de (Wieteke)
1	Technical Product Definition	202300051	Lutters - Weustink, I.F. (Ilanit)
1	Project Design of a Mechanical Tool & Academic Skills 1	202300053	Kogel - Polak, W. de (Wieteke)
<b>2</b>	<b>Energy and Materials</b>	<b>202000108</b>	
2	Engineering Thermodynamics 1	202300056	Acar, C. (Canan)
2	Engineering Thermodynamics 1	202300056	Stoffels, G.G.M. (Genie)
2	Modelling and Programming 2	202300057	Stoffels, G.G.M. (Genie)
2	Materials Science	202000110	Goulas, K. (Constantinos)
2	Project Design of a Mechanical Tool & Academic Skills 1	202000112	Kogel - Polak, W. de (Wieteke)
2	Project Design of a Mechanical Tool & Academic Skills 1	202000112	Moester, M.J.B. (Mirjam)
2	Project Design of a Mechanical Tool & Academic Skills 1	202000112	Stoffels, G.G.M. (Genie)
2	Project Analysis of an Energy System & Academic Skills 2	202000111	Bramer, E.A. (Eddy)
2	Project Analysis of an Energy System & Academic Skills 2	202000111	Stoffels, G.G.M. (Genie)
<b>3</b>	<b>Energy and Sustainability</b>	<b>202000114</b>	
3	Engineering Thermodynamics 2	202300058	Acar, C. (Canan)
3	Engineering Thermodynamics 2	202300058	Stoffels, G.G.M. (Genie)
3	Modelling and Programming 3	202300059	Stoffels, G.G.M. (Genie)
3	Materials Science 2	202000116	Bor, T.C. (Ton)
3	Introduction to LCA	202000117	Stoffels, G.G.M. (Genie)
3	Project Design of an Energy System & Academic Skills 3	202000119	Bramer, E.A. (Eddy)
3	Project Design of an Energy System & Academic Skills 3	202000119	Stoffels, G.G.M. (Genie)
<b>4</b>	<b>Design and Mechanics</b>	<b>202000121</b>	
4	Mechanics of Materials	202300060	Abdul Rasheed, M.I. (Mohammed)
4	Modelling and Programming 4	202300061	Havinga, G.T. (Jos)
4	Machine Elements	202300282	Zwier, M.P. (Marijn)
4	Project Design of a Construction & Academic Skills 4	202300283	Loendersloot, R. (Richard)
4	Project Design of a Construction & Academic Skills 4	202300283	Moester, M.J.B. (Mirjam)
<b>5</b>	<b>Dynamic Systems</b>	<b>202000126</b>	
5	Dynamics 1	202000127	Loendersloot, R. (Richard)
5	System Analysis	202000128	Römer, G.R.B.E. (Gert-Willem)
5	Project Design Principles & Academic Skills 5	202000129	Jong, J.J. de (Jan)
<b>6</b>	<b>Product Design</b>	<b>202000131</b>	
6	Processing and Properties of Polymers	202000132	Drongelen, M. van (Martin)
6	Processing and Properties of Polymers	202000132	Grunert, F. (Fabian)
6	Elasticity Theory	202000133	Askes, H. (Harm)
6	Elasticity Theory	202000133	Luding, S. (Stefan)
6	Tribology	202000134	Mishra, T. (Tanmaya)
6	Tribology	202000134	Osara, J.A. (Jude)
6	Tribology	202000134	Rooij, M.B. de (Matthijn)
6	Project Product Design & Academic Skills 6	202000135	Seyyed Monfared Zanjani, J. (Jamal)
<b>7</b>	<b>Fluid Mechanics and Heat Transfer</b>	<b>202000137</b>	
7	Fluid Mechanics 1	202000138	Hagmeijer, R. (Rob)
7	Fluid Mechanics 1	202000138	Rohlf, W. (Wilko)
7	Fluid Mechanics 1	202000138	Venner, C.H. (Kees)

7	Fluid Mechanics 1	202000138	Visser, C.W. (Claas Willem)
7	Heat Transfer	202000139	Hagmeijer, R. (Rob)
7	Heat Transfer	202000139	Rohlf, W. (Wilko)
7	Heat Transfer	202000139	Venner, C.H. (Kees)
7	Heat Transfer	202000139	Visser, C.W. (Claas Willem)
7	Project Fluids Engineering & Academic Skills 7	202000140	Hagmeijer, R. (Rob)
7	Project Fluids Engineering & Academic Skills 7	202000140	Rohlf, W. (Wilko)
7	Project Fluids Engineering & Academic Skills 7	202000140	Venner, C.H. (Kees)
7	Project Fluids Engineering & Academic Skills 7	202000140	Visser, C.W. (Claas Willem)
<b>8</b>	<b>Mechatronic Design</b>	<b>202000142</b>	
8	Dynamics 2	202000143	Schilder, J.P. (Jurnan)
8	System and Control Engineering	202000144	Aarts, R.G.K.M. (Ronald)
8	Project Mechatronics & Academic Skills 8	202000145	Hakvoort, W.B.J. (Wouter)
8	Project Mechatronics & Academic Skills 8	202000145	Moester, M.J.B. (Mirjam)
<b>11</b>	<b>Production Systems Engineering</b>	<b>202000147</b>	
11	Introduction to Finite Element Method	202000149	Hazrati Marangalou, J. (Javad)
11	Academic Research & Skills	202000150	Konrad, K.E. (Kornelia)
11	Academic Research & Skills	202000150	Moester, M.J.B. (Mirjam)
11	Project Production Systems Engineering	202000151	Kogel - Polak, W. de (Wieteke)
11	Project Production Systems Engineering	202000151	Reyes Garcia, J.R. (Roberto)
<b>12</b>	<b>ME Bachelor Assignment</b>	<b>202000153</b>	
12	ME BSc Research Assignment	202000154	Moester, M.J.B. (Mirjam)
12	ME BSc Research Assignment	202000154	Stoffels, G.G.M. (Genie)
12	ME BSc Societal Embedding Assignment	202000155	Moester, M.J.B. (Mirjam)
12	ME BSc Societal Embedding Assignment	202000155	Stoffels, G.G.M. (Genie)

#### 2.4.2 Bachelor courses Mechanical Engineering VU (reference date 01.12.2024)

M	Course	Code	Examiner(s)
<b>1</b>	<b>Manufacturing</b>	<b>201900008</b>	
1	Statics	201900010	van Heijningen, J.V. (Joris)
1	Mechanics of Materials	201900011	Gooijer - Hoeben, B.M. de (Boukje)
1	Mathematics: Linear Algebra & Calculus 1	202400445	Mulas, R.M.
1	Project & Academic Skills 1: Manufacturing	202400446	Schilder, J.P. (Jurnan)
1	Intro to Mechanical Engineering	201900014	Schilder, J.P. (Jurnan)
1	Manufacturing 1	201900013	Mehrpouya, M. (Mehrshad)
1	Manufacturing 1	201900013	Martin, N.S.
1	Materials Science: Metals and Alloys	201900012	Luckabauer, M. (Martin)
1	Continuous Assessment 1	201900016	Gooijer - Hoeben, B.M. de (Boukje)
<b>2</b>	<b>Energy Transition &amp; Sustainability</b>	<b>201900017</b>	
2	Thermodynamics	201900020	Basson, N. (Nikki)
2	Thermodynamics	201900020	Nagasundaram, S.
2	Mathematics: Linear Algebra & Calculus 2	202400447	Planque, R.
2	Project & Academic Skills 2: Energy Transition & Sustainability	201900019	Nagasundaram, S.
2	Project & Academic Skills 2: Energy Transition & Sustainability	201900019	Singh, A.K. (Abhishek)
2	Design Engineering	201900022	Ratkoceri, J. (Jakup)
2	Life Cycle Analysis	201900024	Muscarella, L. (Loreta)
2	Manufacturing Systems	201900023	Thiede, S. (Sebastian)
2	Renewable Energy Technology	201900021	Singh, A.K. (Abhishek)
2	Continuous Assessment 2	201900025	Gooijer - Hoeben, B.M. de (Boukje)

<b>3</b>	<b>Smart Manufacturing Systems</b>	<b>202400448</b>	
3	Dynamics	202000008	Meghoe, A.A. (Annemieke)
3	Dynamics	202000008	Mow-Lowry, C.M. (Conor)
3	Mechanical Vibrations	202000009	Di Maio, D. (Dario)
3	Mechanical Vibrations	202000009	Mow-Lowry, C.M. (Conor)
3	Mathematics: Differential Equations	202000007	Jung, M.
3	Project & Academic Skills 3: Smart Manufacturing Systems	202400449	Martinetti, A. (Alberto)
3	Project & Academic Skills 3: Smart Manufacturing Systems	202400449	Wang, H. (Huan)
3	Project & Academic Skills 3: Smart Manufacturing Systems	202400449	Askes, S.H.C. (Sven)
3	Manufacturing 2	202000013	Arastehfar, S. (Soheil)
3	Smart Industry	202000022	Ghafoorpoor Yazdi, P. (Poorya)
3	Materials Science: Polymers	202000010	Grunert, F. (Fabian)
3	Materials Science: Polymers	202000010	Drongelen, M. van (Martin)
3	Tribology	202000011	Osara, J.A. (Jude)
3	Tribology	202000011	Rooij, M.B. de (Matthijn)
3	Continuous Assessment 3	202000015	Gooijer - Hoeben, B.M. de (Boukje)
<b>4</b>	<b>Technology for Healthcare</b>	<b>202000016</b>	
4	Elasticity Theory + FEM	202000021	Schilder, J.P. (Jurnan)
4	Elasticity Theory + FEM	202000021	Ellenbroek, M.H.M. (Marcel)
4	Mathematics: Vector Calculus	202100008	Planque, R. (Rob)
4	Project & Academic Skills 4: Technology for Healthcare	202400450	Koroglu, H. (Hakan)
4	Project & Academic Skills 4: Technology for Healthcare	202400450	Kalpathy Venkiteswaran, V. (Venkat)
4	Project & Academic Skills 4: Technology for Healthcare	202400450	Wang, H. (Huan)
4	Project & Academic Skills 4: Technology for Healthcare	202400450	Martin, N.S. (Nicolas)
4	Precision Engineering	202000020	Nijenhuis, M. (Marijn)
4	Control Engineering	202000019	Koroglu, H. (Hakan)
4	System Analysis	202000018	Feinaeugle, M. (Matthias)
4	Signal Analysis	202000012	Feinaeugle, M. (Matthias)
4	Systems Engineering	202000023	Nizamis, K. (Kostas)
4	Continuous Assessment 4	202000015	Gooijer - Hoeben, B.M. de (Boukje)
<b>6</b>	<b>Thermal &amp; Fluid Engineering and BSc Assignment</b>	<b>202100007</b>	
6	Fluid Mechanics	202100009	Jain, K. (Kartik)
6	Mathematics: Statistics & Probability	202000017	van der Plas, S. (Stéphanie)
6	Project & Academic Skills 5: Thermal & Fluid Engineering	202100011	Weinhart, T. (Thomas)
6	Project & Academic Skills 5: Thermal & Fluid Engineering	202100011	Gooijer - Hoeben, B.M. de (Boukje)
6	Heat Transfer	202100010	Visser, C.W. (Claas Willem)
6	BSc Assignment	202100012	Gooijer - Hoeben, B.M. de (Boukje)
6	Research Skills	202100013	Gooijer - Hoeben, B.M. de (Boukje)
6	Continuous Assessment 5	202100014	Gooijer - Hoeben, B.M. de (Boukje)

#### 2.4.3 Master courses Mechanical Engineering (reference date 01.12.2024)

Q	Course	CodeCode	Examiner
1A	Composites	191121710	Grouve, W.J.B.
1A	Design, Production and Materials	191121720	Akkerman, R.
1A	Transport Phenomena	191141700	Mahmoudi, A.

1A	Biophysical Fluid Dyn.: The Resp. Syst.	191154740	Jongh, F.H.C. de
1A	Solids and Surfaces	191155700	Gitman, I.M.
1A	Engineering Acoustics	191157750	Wijnant, Y.H.
1A	Maintenance Engineering & Management	201200146	Braaksma, A.J.J.
1A	Fluid Mechanics II	201500136	Venner, C.H.
1A	Modelling of Technical Design Processes	201600018	Pereira Pessoa, M.V.
1A	Energy Conversion Technology	201600019	Haijkens, K.
1A	Transport Phenomena for EngD	201600353	Mahmoudi, A.
1A	Main. Engineering & Management for EngD	201600360	Braaksma, A.J.J.
1A	Fundamentals of Numerical Methods (FNM)	201900074	Weide, E.T.A. van der
1A	Industrial Robotic Systems	202000032	Arastehfar, S.
1A	Structural Dynamics	202000037	Di Maio, D.
1A	Experimental methods Fluid & Thermal engineering	202000245	Venner, C.H.
1A	Frontiers in Smart & Sustainable Industry	202400340	Yang, S.
1A	Integrative Design of Biomedical Prod.	202400400	Tuijthof, G.J.M.
1B	Manufacturing Facility Design	191102041	Hoekstra, S.
1B	Laser Materials Processing	191137400	Römer, G.R.B.E.
1B	Fluid Mechanics of Turbomachines 1	191154720	Venner, C.H.
1B	Failure Mechanisms & Life Prediction	201300038	Di Maio, D.
1B	Plastic and Elastomer Engineering	201400044	Blume, A.
1B	Advanced Thermodynamics	201500024	Otter, W.K. den
1B	Plastic and Elastomer Engineering EngD	201600352	Blume, A.
1B	Flexible Multibody Dynamics	201900037	Aarts, R.G.K.M.
1B	Advanced Topics in Finite Element Method	201900091	Perdahcioglu, E.S.
1B	Automated Production Systems	202000030	Chemweno, P.K.
1B	Frontiers in Personal Health Technology	202000034	Arens, J.
1B	Sustainable CPPS	202400341	Yang, S.
1B	Sustainability in Manufacturing	202400342	Yang, S.
1B	Energiesysteemintegratie (ESI)	202400343	Bonnema, G.M.
2A	Design of Production & Inventory Systems	191124720	Hoekstra, S.
2A	DPPM 2	191131360	Brouwer, D.M.
2A	Human Movement Control	191150480	Asseldonk, E.H.F. van
2A	Surface Technology	191155710	Matthews, D.T.A.
2A	Tribology	191155730	Osara, J.A.
2A	Structural Health & Condition Monitoring	201300039	Berkhoff, A.P.
2A	Process Equipment design	201300155	Bramer, E.A.
2A	Linear Solid Mechanics	201400037	Ellenbroek, M.H.M.
2A	Experimental Methods	201400046	Di Maio, D.
2A	Elastomer Science & Engineering	201500344	Blume, A.
2A	Theory of ODE	201600101	Thornton, A.R.
2A	DPPM for EngD	201600355	Brouwer, D.M.
2A	Struct Health & Condit. Monitoring EngD	201600358	Loendersloot, R.
2A	Design for Maintenance for EngD	201600359	Martinetti, A.
2A	Turbulent Combustion	201700218	Kok, J.B.W.
2A	Biomechanics of human movement	201800156	Sartori, M.

2A	Elastomer Design and Engineering - EngD	201900038	Blume, A.
2A	Machine learning in engineering	201900097	Rosic, B.
2A	Frontiers in Design and Manufacturing	202000033	Toxopeus, M.E.
2A	Multiscale Functional Materials	202000035	Visser, C.W.
2A	Aircraft & Wind Turbine Aerodynamics	202000244	Garrel, A. van
2A	Learning and Adaptive Control	202000256	Hakvoort, W.B.J.
2A	Active Sound and Vibration Control	202001392	Berkhoff, A.P.
2A	Biofluid Dynamics: Theory and Analysis	202001436	Jain, K.
2A	Development of Artificial Internal Organs	202300256	Arens, J.
2A	Rheology & Processing of Thermoplastics	202300266	Drongelen, M. van
2B	Life-cycle Strategy	191102010	Toxopeus, M.E.
2B	Composites Forming	191121700	Akkerman, R.
2B	Lean Six Sigma Green Belt	191127520	Hoekstra, S.
2B	Gasdynamics	191154340	Venner, C.H.
2B	Computational Fluid Dynamics	191154731	Weide, E.T.A. van der
2B	Biomechanics	201200133	Kooij, H. van der
2B	Nonlinear Solid Mechanics	201400042	Boogaard, A.H. van den
2B	Multiphase Flows	201400300	Hagmeijer, R.
2B	Computational Fluid Dynamics for EngD	201600354	Weide, E.T.A. van der
2B	iden. hum. phys. sys.	201700071	Asseldonk, E.H.F. van
2B	Uncertainty quantification & model reduc	201900098	Rosic, B.
2B	Frontiers in Energy and Flow	202000036	Basson, N.
2B	Frontiers in Maintenance	202000039	Loendersloot, R.
2B	Soft Robotics	202000248	Sadeghi, A.
2B	3D bioprinting	202100080	Rouwkema, J.
2B	Reinforcement learning in Engineering	202100226	Rosic, B.
2B	Adhesion and bonding Technology	202100228	Seyyed Monfared Zanjani, J.
2B	Phase transformations in manufacturing	202100319	Bor, T.C.
2B	Basics of acoustics & aero-acoustics	202300225	Venner, C.H.
2B	Introduction to Humanitarian Engineering	202300338	Chemweno, P.K.

#### 2.4.4 Master courses Sustainable Energy Technology (reference date 01.12.2024)

Q	Name	Code	Examiner
1A	Basics for Process Simulation	201800102	Kok, J.B.W.
1B	Thermodynamics and Flowsheeting	193735010	Ruiz Ramiro, M.P.
1B	Thermodynamics & Flowsheeting for EngD	201600350	Ruiz Ramiro, M.P.
1B	Electrical Power Eng. & System Integr.	201700026	Dhalle, M.M.J.
1B	Building Integrated Photovoltaics	201800500	Shirazi, E.
1B	Hydrogen Technology	202200266	Singh, A.K.
2A	Energy Storage	201600252	Shahi, M.
2A	Solar Energy	201700025	Saive, R.
2B	Wind Energy	201700024	Garrel, A. van

## 2.5 EVALUATION OF COURSES/EXAMS/FINAL ASSIGNMENTS

As part of safeguarding the quality of assessment within the ME program, courses are regularly screened. Up until now, this screening was done by the teachers of the successive quartile (or module). Although in theory this should work perfectly, the

screening was felt a bit too non-committal. Therefore, the programme has started a dedicated test screening committee, as a sub-committee of the examination board. The screening committee consists of:

- Educational consultant: Chantal Scholten, Marleen de Haan
- Senior student: Lisa van der Vinne
- Teacher ME: Nikola Nizamis
- Teacher ME-VU: Boukje de Gooijer
- Program manager: Mark Rijkeboer – Chair

Every quartile the screening committee conducts one test screening per programme, according to a cycle. If there is a complaint on an exam this exam can also be screened (it is the responsibility of the program director to inform and request the screening committee about this). The Examination Board can also request an additional test screening.

### **2.5.1 Reviewed tests**

#### **2023 – 2024**

- Live Cycle Analysis (VU)
- Mechanics of Materials (UT)

#### **2024 – 2025**

- TIME (UT and VU)
- Mathematics: Linear Algebra & Calculus 1 (VU)
- Modelling and Programming 1 (UT)
- Engineering Thermodynamics 1 (UT)
- Design Engineering (VU)
- Materials Science 2 (UT)

### **General Findings**

Overall teachers are well aware of the purpose and quality of their test. An assessment plan is missing in most cases and a test matrix is missing in most cases, sometimes resulting in elaborate testing of the same learning goal.

### 3 OUTLOOK TO STUDY YEAR 2025 – 2026

Prof. Dr.-Ing. B. Rosic will step back from her position as co-chair and serve as member of the Examination Board ME/SET, starting 01-09-2025 until the end of her contract on 31-01-2026.

Prof. Dr.-Ing. J. Arens will serve as chairperson of the Examination Board ME/SET, starting 01-09-2025.

The term of Drs. Marleen de Haan has been extended by 2 years, until 31-08-2027.

Ir. Marijn Zwier will step back from his position as secretary and serve as member until the end of the 6-year term on 31-08-2026.

J.R. Reyes Garcia will serve as new secretary of the examination board, starting 01-09-2025.

In the next academic year (2025-2026) the Examination Board ME/SET plans to address the following:

- More pro-actively continue the efforts of the Assessment Committee – a sub-committee of the Examination Board ME/SET – regarding the evaluation of tests and test plans in both programmes
- Appointment of replacement for Prof. Bojana Rosic (leaving the UT on 31-01-2026)
- Implementation of a new/updated sanction ladder in order to improve the handling of fraud cases
- Implementation of measures to decrease handling time of cases

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