



**ELECTIVE COURSES  
INDUSTRIAL ENGINEERING &  
INNOVATION SCIENCES**

**TU/e**

EINDHOVEN  
UNIVERSITY OF  
TECHNOLOGY

This document contains a detailed collection of elective courses available in every Thematic Learning Area. Would you like to get more information about a specific elective course? Scan the QR code to go to **whichelectives.nl** to receive more knowledge of our courses.



<b>ARTIFICIAL INTELLIGENCE</b>					
<b>Course code</b>	<b>Course name</b>	<b>Lecturer</b>	<b>Level</b>	<b>Quartile</b>	<b>Timeslot</b>
<b>0HV120</b>	Programming for PT	Linghan Zhang	1	1	A
<b>0HV130</b>	Applied Data Skills	Gerrit Rooks	1	3	E
<b>0LAUK0</b>	Project Robots everywhere	Rene van de Molengraft	3	1 and 3	A
<b>0LEUB0</b>	Social robots	Lambèr Royakkers	1	1	A
<b>0LSUE0</b>	Rational agents: robots & artificial intelligence	Tijn Borghuis	2	2	A
<b>1BK20</b>	Business process simulation	Laura Genga	3	3	B
<b>1BK50</b>	Algorithmic programming for operations management	Remco M. Dijkman	3	1	E
<b>1BV70</b>	Business analytics & decision support	Zaharah Bukhsh	3	4	A

## CONTROLLING INDUSTRIAL PROCESSES

Course code	Course name	Lecturer	Level	Quartile	Timeslot
0HV120	Programming for PT	Linghan Zhang	1	1	A
0HV130	Applied Data Skills	Gerrit Rooks	1	3	E
0LAUK0	Project Robots everywhere	Rene van de Molengraft	3	1 and 3	A
0LSUC0	Decision theory	Frits C.R. Spieksma	2	2	A
0LSUE0	Rational agents: robots & artificial intelligence	Tijn Borghuis	2	2	A
1BK00	Health information systems	Pieter van Gorp	1	2	B
1BK20	Business process simulation	Laura Genga	3	3	B
1BK50	Algorithmic programming for operations management	Remco M. Dijkman	3	1	E
1BK70	Digitalization and Enterprise Systems	Oktay Türetken	3	1	E
1BV00	Fundamentals of Business Information Systems	Sybren de Kinderen	1	3	B
1BV10	Design of business information systems	Maryam Razavian	2	1	D
1BV70	Business analytics & decision support	Zaharah Bukhsh	3	4	A
1CK00	Transport and distribution	Layla Martin	1	1	B
1CK20	Quantitative modeling and analysis of business processes	Ahmadreza Marandi	3	4	A
1CK40	Intermediate finance and accounting	Loe Schlicher	2	4	B
1CK50	Production and inventory control (non IE)	Rob Broekmeulen	3	2	A
1CK60	Maintenance and service logistics	Rob Basten	3	3	B
1CK90	Microeconomics	Marco Slikker	2	1	E
1CK110	Healthcare management and modeling	Nico Dellaert	2	1	B
1CK120	Revenue Management and Pricing Analytics	Colin Drent	3	3	A
1CK130	Optimizing logistics network operations using simulation and digital twinning	Layla Martin	2	2	B
1CV00	Fundamentals of Operation Management	Rob Basten	1	3	C
1CV10	Fundamentals of Financial and Management Accounting	Lijia Tan	1	3	D
1JZK40	Designing business processes	Renée M. Boesten	1	3	A

## ENTREPRENEURSHIP

Course code	Course name	Lecturer	Level	Quartile	Timeslot
<b>0LAUH0</b>	Decisions Under Risk and Uncertainty Project Course	Philip Nickel	3	3	A
<b>0LEUA0</b>	Decisions under risk and uncertainty	Vlasta Sikimic	1	1	A
<b>0LSUA0</b>	Analysis and control of risk	Philip Nickel	2	2	A
<b>0SAUC0</b>	Patents design rights and standards project	Rudi Bekkers	3	1 and 3	A
<b>0SEUB0</b>	Patents design rights and standards exploration course	Rudi Bekkers	1	1	A
<b>0SSUC0</b>	Patents design rights and standards specialized course	Rudi Bekkers	2	2	A
<b>0ZK00</b>	Intellectual property rights for new ventures	Emilio Raiteri	1	1	B
<b>1CK40</b>	Intermediate finance and accounting	Loe Schlicher	2	4	B
<b>1JK10</b>	Leadership development and self-management in organizations	Andreea Nicolau	2	2	B
<b>1ZAUA0</b>	Innovating by design	Jim Steenbakkers	3	3	A
<b>1ZK10</b>	Technology forecasting	Jaime Bonnin Roca	2	1	A
<b>1ZK20</b>	Sustainability perspectives on product innovation	Raymond Opdenakker	3	3	B
<b>1ZK30</b>	Entrepreneurship in action 1	Annelies Bobelyn	1	1	A
<b>1ZK40</b>	Entrepreneurship in action 2	Annelies Bobelyn	2	2	A
<b>1ZV50</b>	Fundamentals of Product Innovation	Vikrant Sihag	1	4	B
<b>1ZVETU10</b>	EuroTeQ Collider: Entrepreneurship & Innovation	Isabelle Reymen	3	3	C

## LEADING TECHNOLOGICAL INNOVATION

Course code	Course name	Lecturer	Level	Quartile	Timeslot
<b>0LAUH0</b>	Decisions Under Risk and Uncertainty Project Course	Philip Nickel	3	3	A
<b>0LEUA0</b>	Decisions under risk and uncertainty	Vlasta Sikimic	1	1	A
<b>0LSUA0</b>	Analysis and control of risk	Philip Nickel	2	2	A
<b>0SAUC0</b>	Patents design rights and standards project	Rudi Bekkers	3	1 and 3	A
<b>0SEUB0</b>	Patents design rights and standards exploration course	Rudi Bekkers	1	1	A
<b>0SSUC0</b>	Patents design rights and standards specialized course	Rudi Bekkers	2	2	A
<b>1ZAUA0</b>	Innovating by design	Jim Steenbakkers	3	3	A
<b>1ZAUC0</b>	Marketing in action	Kostya Patsera	3	4	A
<b>1ZEUA0</b>	New product marketing	Joost Wouters	1	1	A
<b>1ZK10</b>	Technology forecasting	Jaime Bonnin Roca	2	1	A
<b>1ZK20</b>	Sustainability perspectives on product innovation	Raymond Opdenakker	3	3	B
<b>1ZK30</b>	Entrepreneurship in action 1	Annelies Bobelyn	1	1	A
<b>1ZK40</b>	Entrepreneurship in action 2	Annelies Bobelyn	2	2	A
<b>1ZSUA0</b>	Marketing research and design methods	Raymond Opdenakker	2	2	A
<b>1ZV20</b>	Marketing perspectives on product innovation	Jeroen Schepers	2	3	D
<b>1ZV50</b>	Fundamentals of Product Innovation	Vikrant Sihag	1	4	B
<b>1ZVETU10</b>	EuroTeQ Collider: Entrepreneurship & Innovation	Isabelle Reymen	3	3	C

## SUSTAINABILITY

Course code	Course name	Lecturer	Level	Quartile	Timeslot
<b>0SK40</b>	Climate change: understanding the causes and solutions	Heleen de Coninck & Bart Wesselink	1	2	A
<b>0SV10</b>	Sustainable technology in society: introduction	Frank Veraart	1	2	D
<b>0SV30</b>	Economics of innovation: introduction	Elena Tur	1	1	C
<b>0SV40</b>	Managing sustainable technology	Anna Wieczorek	2	4	A
<b>0SV50</b>	Managing sustainable technology-OGO	Georgios Papachristos	3	3	E
<b>0SV60</b>	Economic policy	Emilio Raiteri	2	4	D
<b>0SV70</b>	Economic policy in practice: social cost benefit analysis	Bert Sadowski	3	1 and 3	C
<b>0SV130</b>	Global sustainability and Innovation	Johanna Höffken	2	3	B
<b>0SV140</b>	Assesment to support decision making	Arjan Kirkels	3	2	D
<b>0SV150</b>	Global sustainability in long term perspective	Jonas Van der Straeten	3	4	B
<b>1JK20</b>	Social innovation and sustainable employability	Jan de Jonge	2	1	A

## UNDERSTANDING HUMANS

Course code	Course name	Lecturer	Level	Quartile	Timeslot
0HV00	Behavioral research methods 1: designing research	Chao Zhang	1	3	C
0HV10	Introduction Psychology & Technology	Daniël Lakens	1	1	E
0HV20	Perception and motor control	Raymond Cuijpers	3	4	E
0HV30	Social & Environmental psychology	Peter Ruijten-Dodoiu	1	2	A
0HV40	Brain, body & behaviour	Sanne Schoenmakers	2	4	B
0HV50	Behavioral research methods 2: dealing with data	Chris Snijders	2	1	C
0HV60	Thinking and deciding	Rianne Conijn	3	2	D
0HV80	Sociology & social network analysis	Uwe Matzat	2	1	B
0HV100	Human factors	Daniël Lakens	3	2	C
0HV110	Advanced research methods and research ethics	Chris Snijders	3	1 and 4	D and A
0HVI00	CBL ICT: engineering e-health	Sanne Schoenmaker	2	3	C
0HVL00	3D modelling studio for PT	Deniz Tuzcuoglu & Antal Haans	1	2	D
0HVL10	Healthful environments: light, wellbeing and the biological clock	Yvonne de Kort	2	3	D
0HVR00	Recognising & implementing social cues for HRI	Raymond Cuijpers	2	3	D
0LEUB0	Social robots	Lambèr Royakkers	1	1	A
1JK00	Management of human behavior in organizations (Non IE)	Leander van der Meij	1	1	A
1JK10	Leadership development and self-management in organizations	Andreea Nicolau	2	2	B
1JK20	Social innovation and sustainable employability	Jan de Jonge	2	1	A
1JV00	Fundamentals of Work & Organizational Psychology	Ad Kleingeld	1	1	C

## UNDERSTANDING SOCIETAL CHALLENGES

Course code	Course name	Lecturer	Level	Quartile	Timeslot
0SK40	Climate change: understanding the causes and solutions	Heleen de Coninck & Bart Wesselink	1	2	A
0SV10	Sustainable technology in society: introduction	Frank Veraart	1	2	D
0SV30	Economics of innovation: introduction	Elena Tur	1	1	C
0SV40	Managing sustainable technology	Anna Wieczorek	2	4	A
0SV50	Managing sustainable technology-OGO	Georgios Papachristos	3	3	E
0SV60	Economic policy	Emilio Raiteri	2	4	D
0SV70	Economic policy in practice: social cost benefit analysis	Bert Sadowski	3	1 and 3	C
0SV130	Global sustainability and Innovation	Johanna Höffken	2	3	B
0SV140	Assesment to support decision making	Arjan Kirkels	3	2	D
0SV150	Global sustainability in long term perspective	Jonas Van der Straeten	3	4	B
0ZK00	Intellectual property rights for new ventures	Emilio Raiteri	1	1	B

If you are interested in following the **Master Human-Technology Interaction**, **Master Innovation Management** or **Master Operations Management and Logistics** after your bachelor, scan the QR code. You will go to the admissions with the courses you need to follow to get into the Master program.



**Master  
Human-Technology  
Interaction**



**Master  
Innovation  
Management**



**Master  
Operations Management  
and Logistics**