

Delift University of Technology

Faculty of Mechanical, Maritime and Materials Engineering

STUDY PROGRAM IN MSC MATERIALS SCIENCE & ENGINEERING

FORM TO REGISTER THE MODULES OF THE INDIVIDUAL PROGRAMME, THE "SPECIALISATION COURSE" OF YOUR CHOICE AND YOUR ELECTIVE MODULES

Family name

First name(s) :

Student number :

E-mail address :

states that she / he will take part in the Specialisation Course:

Metals Science and Technology [MST]

Advanced Functional Polymers [AFP]

:

Advanced Construction Materials: Roads & Buildings [ACM]

Materials for Energy and Environmental Impact (MEE)

Self defined (-)

[Please mark one and only one of these choices]

Date:

Signature:

To be completed and delivered or submitted to: Servicepoint 3mE Faculty of Mechanical, Maritime and Materials Engineering – Mekelweg 2 - Delft

Please keep a copy for own use!

Generic Course

Code	Module name	EC	Total 60 EC
ME1301	Society's Needs: Case Studies and Materials Challenges	4	
ME1302	Structure and Properties of Materials	8	
ME1303	Materials for Light-Weight Constructions	5	
ME1304	Lab Classes	4	
ME1305	Materials for Highly Loaded Structures	5	
MS4061	Thermodynamics and Kinetics	4	
MS4015	Mechanical Behaviour of Materials	4	
ME1307	Materials for Measurement and Control Devices	5	
ME1309	Advanced Research Methods	4	
MS4111	Thin Film Materials	3	
MS3021	Metals Science	4	
CH4011MS	Polymer Science	4	
CH4021MS	Ceramic Science	3	
WM0320TU	Ethics and Engineering	3	

See other side to register your Specialisation Course and Elective Modules.



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Specialisation Course: Metals Science and Technology (MST)

Code	Module name	EC	Total 14 EC
MS3412	Processing of Metals	4	
MS3442	Relation between Properties and Microstructure	4	
MS3452	Total Performance Approach: Case Studies	3	
MS3461	Corrosion and Protection against Corrosion	3	

Specialisation Course: Advanced Functional Polymers (AFP)

Code	Module name	EC	Total 14 EC
CH4041MS	Structure Formation and Characterization	4	
CH4091MS	Polymer Processing and Blends	3	
CH4131MS	Polymer Structure and Dynamics	3	
CH4141MS	Advanced Polymer Applications	4	

Specialisation Course: Advanced Construction Materials: Roads & Buildings (ACM)

Code	Module name	EC	Total 14 EC
CIE5100	Repair and Maintenance of Construction Materials	4	
CIE5102	Forensic Building Materials Science	3	
CIE5110	Concrete - Science and Technology	4	
CIE5146	Micromechanics and Computational Modelling of Building Materials	3	

Specialisation Course: Materials for Energy and Environmental Impact (MEE)

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Code	Module name	EC	Total 16 EC
ME1306	Materials at High Temperature	5	
ME1308	Materials for Hydrogen and Solar Applications	4	
ET4376	Photovoltaic Basics	4	
MS4151	Recycling Engineering Materials	3	

Elective Modules

Code	Module name	EC	Total ≥ 4 EC
CIE4030	Methodology for Scientific Research	3	
CIE4100	Materials and Ecological Engineering	4	
CIE4880	Road Paving Materials incl. Laboratory Experiment	7	
CIE5142	Computational Methods in Non-Linear Solid Mechanics	3	
MS3401	Primary Metals Production	3	
BM1112	Powder techn. and adv. mat. for eng. and biomedical applications	3	
MS3432	Determination of Microstructure	4	
MS3912	Internship	6	
MS4071	Materials in Art and Design	3	
MS4131NS	Solid State Physics II	3	

Assignments (MSc-project, other Projects)

Code	Module name	EC	Total ≥ 40 EC
MS3901	Research Project (leading to MSc thesis)	40	

EC = European Credit. 1 EC = 28 hours study load

Date:

Signature student

Date: Board of Examiners: