## EDAM - Advanced Manufacturing 2019-20

### Core courses

<table>
<thead>
<tr>
<th>Courses</th>
<th>Language Code</th>
<th>Section</th>
<th>Teacher</th>
<th>Exam</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design of experiments (a) - Fall semester</td>
<td>E</td>
<td>ENG-606(a)</td>
<td>EDRS</td>
<td>Fuerbringer</td>
<td>Project report</td>
</tr>
<tr>
<td>(Block course Fall 2019 (including a 2 days optional pre-course on Matlab))</td>
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<tr>
<td>Design of experiments (c) - Spring semester</td>
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| Highlights in microtechnology  
(Next time June 1-12, 2020) | E | MICRO-607 | EDRS | Giovannini Various lecturers | Written | 4 |
| Product lifecycle management - concepts methods and tools  
(Next time: Fall 2019) | E | MGT-707 | EDRS | Kyritsis | Oral presentation | 4 |

### Other doctoral courses (EDOC) (*)

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| 3D Printing with light  
(Next time Spring 2020 to be confirmed) | E | MICRO-722 | EDPO | Moser Psaltis | Oral | 1 |
| Advanced experimental methods in condensed matter and nanophysics  
(Next time: Spring (Block course) (Stuttgart - Germany)) | E | PHYS-630 | EDPY | Kern | Oral | 2 |
| Advances in Contact Mechanics  
(Next time: Spring 2020) | E | ME-623 | EDME | Molinari | Oral presentation | 2 |
| Fusion and industrial plasma technologies  
(Next time: Spring 2021) | E | PHYS-632 | EDPY | Alberti Bruzzone Duval Fasel Hogge Howling Martin Tran | Oral | 4 |
| High pressure in chemical kinetics and equilibria  
(Next time: December 2019) | E | CH-617 | EDCH | Laurenczy | Project report | 2 |
| IMT Distinguished Lecture Series  
(From 11.02 to 2.12.2019. SV1717 (live) & MC B0 302 (video)) | E | MICRO-626 | EDMI | Carrara Quack Shea | Oral | 1 |
| Laser Materials Processing  
(Next time: 2019-2020) | E | MSE-662 | EDMX | Hoffmann Leinenbach Wasmer | Oral | 2 |
| Mathematical models in supply chain management  
| E | MGT-602 | EDMT | Seifert | Written | 4 |
| Microstructuring of glass  
(Next time in Spring 2021) | E | MICRO-707 | EDMI | Gijs Parashar | Oral | 1 |
Modeling of advanced composites: processing and mechanical properties

E MSE-710 EDMX  Hôte(s) académiques(s) : Michaud

Modern photovoltaic technologies
(Spring 2020 to be confirmed)

E PHYS-609 EDPO  Haug Nüesch Romanyuk

MOOC: Micro and Nanofabrication (MEMS)
(September 18 to November 16, 2019)

E MICRO-621 EDMI  Brugger Gijs

Nanofabrication with focused electron and ion beams

E MSE-619 EDMX  Hoffmann Utke

Optimal control
(Every two years. Next time : Spring 2020)

E EE-715 EDEE  Faulwasser

Powder Characterisation and Dispersion

E MSE-709 EDMX  Bowen

Scaling in MEMS
(August 20 & 21, 2019)

E MICRO-606 EDMI  Renaud Shea

Science and technology of UV-induced polymerization

E MSE-703 EDMX  Leterrier Nouzille Sangermano

Soft Microsystems Processing and Devices
(Next time in September 2020)

E MICRO-618 EDMI  Briand Brugger Lacour Leterrier Shea

Ultrafast phenoma
(Next time: Fall)

E PHYS-724 EDPY  Barillot Chergui

Using Mathematica to analyse and model experimental data
(Next time: Spring (Block course) )

E PHYS-625 EDPY  Stadelmann

Master courses ()

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<tr>
<td>Manufacturing systems and supply chain dynamics</td>
<td>MICRO-448</td>
<td>MT</td>
<td>Filliger Gallay</td>
<td>Oral</td>
<td>3</td>
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