

Courses in English - Master in engineering ICM year 2017-2018

<b>Majors in English</b>	<b>Kind of Courses</b>	<b>Pedagogical Group</b>	<b>Nb of hours</b>
<b>GP 50% English 50% French</b>			
<a href="#">Biomedical Engineering</a>	Major	Biomedical engineering	160h
<b>UP 50% English 50% French</b>			
<a href="#">Supply chain management</a>	Major	Production and logistics management	39h
<a href="#">Internet of Things</a>	Major	Computer science	40h
<a href="#">Damage of Materials</a>	Major	Materials science	40h
<a href="#">Introduction to Physical Metallurgy</a>	Major	Materials science	40h
<a href="#">Heat Generation: Fission and Nuclear Reactor</a>	Major	Energy processes	36h
<a href="#">Multiphase and turbulent flow</a>	Major	Energy processes	31h
<a href="#">Electricity and Turbines</a>	Major	Energy processes	33h
<a href="#">Statistical and machine learning</a>	Major	Data science	40h
<b>Sociétal Challenges in English</b>			
<b>GP in English</b>			
<a href="#">Personalised Medicine and Healthcare</a>	Défi	Personalised medicine and healthcare	80h
<b>UP In English</b>			
<a href="#">Transport Systems Management</a>	Défi S9	Intelligent transportation and mobility systems	40h

<a href="#">Intelligent Transport System</a>	Défi S9	Intelligent transportation and mobility systems	40h
<b>UP 50% English 50% French</b>			
<a href="#">Mathematical modelling and real applications</a>	Défi S9	Big data	15h
<a href="#">Data Organisation</a>	Défi S8+S9	Big data	45h
<a href="#">Manufacturing</a>	Défi S8	Design, conception and innovation	40h
<a href="#">Design of lightweight systems</a>	Défi S8	Ecodesign	40h
<a href="#">Design of metallic parts and additive manufacturing</a>	Défi S9	Ecodesign	40h
<a href="#">Design of functionalised surfaces</a>	Défi S9	Ecodesign	40h
<a href="#">New Performance Levers</a>	Défi S9	Levers and management of industrial renewal	45h
<a href="#">Physics of Nanosystems</a>	Défi S8	Nanotechnologies	40h
<a href="#">Energy Transition: Issues and scenarios</a>	Défi S8	Energy transition	12h
<a href="#">Energy efficiency</a>	Défi S8	Energy transition	30h
<a href="#">Oil refining and Nuclear fuel cycle</a>	Défi S8	Energy transition	40h
<b>Toolboxes in English</b>			
<b>GP in English</b>			
<a href="#">International finance</a>	TB2	International finance	40h
<a href="#">Material and process selection</a>	TB2	Material and process selection	40h
<a href="#">Introduction to Image Processing</a>	TB1	Introduction to image processing	40h
<a href="#">International management</a>	TB1	International management	40h
<a href="#">Physical and mechanical modeling with finite elements</a>	TB1	Physical and mechanical modelling with finite elements	40h

<b>UP In English</b>			
<a href="#">Application of tensors to crystallography</a>	TB2	Tensor calculus	12h
<a href="#">PDE: physical introduction, mathematical analysis and numerical discretisation</a>	TB3	Advanced numerical modelling and simulation	18h
<b>GP 50% English 50% French</b>			
<a href="#">Artificial Intelligence</a>	TB3	Artificial intelligence	80h
<a href="#">Experimental Methods</a>	TB2	Experimental methods	40h
<a href="#">Systems Modelling</a>	TB2	Systems modelling	40h
<b>UP 50% English 50% French</b>			
<a href="#">Hydrogeology</a>	TB3	Geology for civil engineering	18h
<a href="#">Morphological and structural analysis</a>	TB1	Physical methods for matter characterization	13h30
<a href="#">Transfer Phenomena</a>	TB3	Advanced numerical modelling and simulation	20h
<b>Core courses in English</b>			
English Courses 1A			50h
English Courses 2A			50h
<b>Liberal Arts in English</b>			
Musical composition	O1	Liberal Arts	21h
<b>Professionalization Modules – 1 workshop in English</b>			
O4 - Developing Intercultural Skills	O4	Developing intercultural skills	18h