

## CALL FOR STAFF EXCHANGE under ERASMUS+

Icam - Strasbourg-Europe Campus would like to propose a call for Staff Exchange under the ERASMUS+ program. The following classes are available for this academic year:

<b>Subject</b>	<b>Domain</b>
<a href="#">Strength of Materials</a>	Mechanical engineering
<a href="#">Solid Mechanics</a>	Mechanical Engineering
<a href="#">English for Engineers</a>	Mechanical Engineering
<a href="#">German for Engineers</a>	Mechanical Engineering
<a href="#">Spanish for Engineers</a>	Mechanical Engineering

Some of our teachers can share the class material. The kind of material available is specified below the content area. They could be for Lectures, Tutorials, Lab Sessions, or all material available.



Strength of Materials – Mechanical Engineering EC6-RDM			
<b>Duration</b>	5 to 10 days	<b>Total hours</b>	13,5 h- Lecture
<b>Level</b>	3 <sup>rd</sup> Year (BSc)	<b>Language:</b>	English
<b>Desired period</b>	From: February 2023 to May 2023		
<b>Course content</b>	Elastic beam theory Fundamental assumptions of beam theory Saint Venant principle Stress-strain diagram of tensile test Geometric properties of cross section: centroids and area moments of inertia Static equilibrium equations and reactions at joints Internal loads in beams cross sections Diagram of internal loads Simple loadings (tensile-compression, shearing, torsion, pure bending) Combined loadings (simple bending, bending & traction, bending & torsion; deviated bending) Stress and strain: stress vector, stress tensor, strain tensor, normal stress, shear stress, normal strain, shear strain Hooke law of elasticity, plane stress, plan strain Principal stress, principal strain, Mohr circle Failure criteria: Von Mises, Tresca and Rankine Displacement by integration method Principle of superposition for statically indeterminate beams Elastic instability and buckling of columns Euler's buckling load, critical buckling stress Energy methods (strain energy, theorem of potential energy, theorem of complementary energy, Castigliano theorem, theorem of fictitious load, Ménabrea theorem) Application of energy methods to statically indeterminate structures Analysis of trusses (static determinacy, axial loads, analysis of trusses by method of joints and by method of sections, strain and displacement in bars) Analysis of arches and curved beams Analysis of pressure vessels		
<b>Course sharing</b>	<input type="checkbox"/> All <input checked="" type="checkbox"/> Lecture <input type="checkbox"/> Tutorial <input type="checkbox"/> Lab sessions <input type="checkbox"/> None		
<b>Tutor</b>	First name NAME <a href="mailto:massamaesso.bilasse@icam.fr">massamaesso.bilasse@icam.fr</a>		

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### Want to know more?

You can directly contact the tutor at Icam – Strasbourg-Europe Campus for further questions. Remember to add our International Office in cc [international.strasbourg-europe@icam.fr](mailto:international.strasbourg-europe@icam.fr) and the International Office of your home institution.



Solid Mechanics / Mechanics of Rigid Bodies			
<b>Duration</b>	2 to 5 days	<b>Total hours</b>	8h – Lecture/Tutorials
<b>Level</b>	1 <sup>st</sup> Year (BSc)	<b>Language:</b>	English
<b>Desired period</b>	From: March 2023 to April 2023		
<b>Course content</b>	<ul style="list-style-type: none"> <li>[1] Mathematical tools: <i>reference-frame, vectors, kinetic &amp; potential energies (recalls from Mechanics of Particles – seen by students on previous semester)</i></li> <li>[2] Statics : <i>mechanical actions, mechanical joints, fundamental principle of statics, mechanical equilibrium</i></li> <li>[3] Kinematics : <i>velocity field, acceleration field, motion composition, planar motion, instantaneous rotation centre, slip-free rolling</i></li> <li>[4] Kinetics: <i>kinetic moment, inertia moment, inertia operator, inertia matrix, Huygens’ theorem, kinetic energy theorem</i></li> <li>[5] Dynamics: <i>dynamic moment, fundamental principle of dynamics, mechanical energy theorem</i></li> </ul>		
<b>Course sharing</b>	<input type="checkbox"/> All <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Tutorial <input type="checkbox"/> Lab sessions <input type="checkbox"/> None		
<b>Tutor</b>	Sébastien MEY-CLOUTIER <a href="mailto:sebastien.mey-cloutier@icam.fr">sebastien.mey-cloutier@icam.fr</a>		

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English for Engineers – Language Department (EC02-Ang)			
<b>Duration</b>	2 to 4 days	<b>Total hours</b>	10.5 h- Lecture / tutorial
<b>Level</b>	1st Year (BSc)	<b>Language:</b>	English
<b>Desired period</b>	From: May 9th to May 12th 2023		
<b>Course content</b>	The Technical English class is designed for 1st year engineering students in order to broaden their technical vocabulary in English. The objective is the teaching of mechanical engineering vocabulary equivalent to a Bachelor level. The class could be seen as an introduction to this vocabulary taught by an Engineer. A teacher of English with experience in this field is welcome.		
<b>Course sharing</b>	<input type="checkbox"/> All <input type="checkbox"/> Lecture <input type="checkbox"/> Tutorial <input type="checkbox"/> Lab sessions <input checked="" type="checkbox"/> None		
<b>Tutor</b>	Leandro Di Domenico <a href="mailto:leandro.didomenico@icam.fr">leandro.didomenico@icam.fr</a>		

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German for Engineers – Language Department (EC02-AII)			
<b>Duration</b>	2 to 4 days	<b>Total hours</b>	10.5 h- Lecture / tutorial
<b>Level</b>	1st Year (BSc)	<b>Language</b>	German
<b>Desired period</b>	From: May 9th to May 12th 2023		
<b>Course content</b>	The Technical German class is designed for 1st year engineering students in order to broaden their technical vocabulary in German. The objective is the teaching of Maschinenbau vocabulary equivalent to a Bachelor level. The class could be seen as an introduction to this vocabulary taught by an Engineer. A teacher of German with experience in this field is welcome.		
<b>Course sharing</b>	<input type="checkbox"/> All <input type="checkbox"/> Lecture <input type="checkbox"/> Tutorial <input type="checkbox"/> Lab sessions <input checked="" type="checkbox"/> None		
<b>Tutor</b>	Leandro Di Domenico <a href="mailto:leandro.didomenico@icam.fr">leandro.didomenico@icam.fr</a>		

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Spanish for Engineers – Language Department (EC02-Esp)			
<b>Duration</b>	2 to 4 days	<b>Total hours</b>	10.5 h- Lecture / tutorial
<b>Level</b>	1st Year (BSc)	<b>Language</b>	Spanish
<b>Desired period</b>	From: May 9th to May 12th 2023		
<b>Course content</b>	The Technical Spanish class is designed for 1st year engineering students in order to broaden their technical vocabulary in Spanish. The objective is the teaching of vocabulary in Ingeniería Mecánica (nivel Grado) equivalent to a first or second year Bachelor level. The class could be seen as an introduction to this vocabulary taught by an Engineer. A teacher of Spanish with experience in this field is welcome.		
<b>Course sharing</b>	<input type="checkbox"/> All <input type="checkbox"/> Lecture <input type="checkbox"/> Tutorial <input type="checkbox"/> Lab sessions <input checked="" type="checkbox"/> None		
<b>Tutor</b>	Leandro Di Domenico <a href="mailto:leandro.didomenico@icam.fr">leandro.didomenico@icam.fr</a>		

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