CALL FOR STAFF EXCHANGE
under ERASMUS+
2023-24

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:

Subject	Domain	Period
Strength of Materials	Mechanical Engineering	Feb-May 2024
Solid Mechanics	Mechanical Engineering	Feb-May 2024
TOEIC Preparation	Language Department	January 2024
English for Engineers	Mechanical Engineering	May - 2024
German for Engineers	Mechanical Engineering	May 2024
Spanish for Engineers	Mechanical Engineering	May 2024
Supply Chain Management	Industrial Engineering	Feb-May 2024
Metallic Materials	Energy Department	Feb-Jun 2024

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

Duration	5 to 10 days	**Total hours**	13,5 h- Lecture
Level	3rd Year (BSc)	**Language:**	English
Desired period	From: February 2024 to May 2024		

Course content	Elastic beam theory Fundamental assumptions of beam theory Saint Venant principle Stress-strain diagram of tensile test Geometric properties of cross section: centroïds 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
Course sharing	☐ All ☒ Lecture ☐ Tutorial ☐ Lab sessions ☐ None
Tutor	First name NAME massamaesso.bilasse@icam.fr

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
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Solid Mechanics / Mechanics of Rigid Bodies

Duration	2 to 5 days	**Total hours**	8h – Lecture/Tutorials
Level	1st Year (BSc)	**Language:**	English
Desired period	From: March 2024 to April 2024		
Course content	[1] Mathematical tools: *reference-frame, vectors, kinetic & potential energies (recalls from Mechanics of Particles – seen by students on previous semester)* [2] Statics : *mechanical actions, mechanical joints, fundamental principle of statics, mechanical equilibrium* [3] Kinematics : *velocity field, acceleration field, motion composition, planar motion, instantaneous rotation centre, slip-free rolling* [4] Kinetics: *kinetic moment, inertia moment, inertia operator, inertia matrix, Huygens' theorem, kinetic energy theorem* [5] Dynamics: *dynamic moment, fundamental principle of dynamics, mechanical energy theorem*		
Course sharing	☐ All ☒ Lecture ☒ Tutorial ☐ Lab sessions ☐ None		
Tutor	Sébastien MEY-CLOUTIER sebastien.mey-cloutier@icam.fr		

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TOEIC Preparation – Language Department (EC05-Ang)

Duration	3 days	Total hours	10. h- Lecture / tutorial
Level	5th Year (MSc)	Language:	English
Desired period	From: May 21st to May 24th 2024		
Course content	TOEIC preparation classes were designed to reinforce students ability to sit for the official TOEIC test on that same week. The objective is to help the students with classes recalling grammar points as well as the proper techniques for this test.		
Course sharing	☐ All ☐ Lecture ☐ Tutorial ☐ Lab sessions ☒ None		
Tutor	Leandro Di Domenico leandro.didomenico@icam.fr		

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English for Engineers – Language Department (EC02-Ang)

Duration	2 to 4 days	Total hours	10.5 h- Lecture / tutorial
Level	1st Year (BSc)	Language:	English
Desired period	From: May 21st to May 24th 2024		
Course content	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.		
Course sharing	☐ All ☐ Lecture ☐ Tutorial ☐ Lab sessions ☒ None		
Tutor	Leandro Di Domenico leandro.didomenico@icam.fr		

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German for Engineers – Language Department **(EC02-All)**			
Duration	2 to 4 days	**Total hours**	10.5 h- Lecture / tutorial
Level	1st Year (BSc)	**Language**	German
Desired period	From: May 21st to May 24th 2024		
Course content	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.		
Course sharing	☐ All ☐ Lecture ☐ Tutorial ☐ Lab sessions ☒ None		
Tutor	Leandro Di Domenico leandro.didomenico@icam.fr		

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Spanish for Engineers – Language Department (EC02-Esp)

Duration	2 to 4 days	Total hours	10.5 h- Lecture / tutorial
Level	1st Year (BSc)	Language	Spanish
Desired period	From: May 21st to May 24th 2024		
Course content	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.		
Course sharing	☐ All ☐ Lecture ☐ Tutorial ☐ Lab sessions ☒ None		
Tutor	Leandro Di Domenico leandro.didomenico@icam.fr		

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Supply Chain Management and Distribution
IDD Department (Industry and Sustainable Development)
(EC08 Supply Chain Management and Distribution)

Duration	2 to 4 days	Total hours	6 h- Lecture / tutorial
Level	4st Year	Language	English
Desired period	From: February to April 2024		

Course content	**Supply Chain (3hC, 6.5hTP) :** - Definition of the Supply chain - Company logistics (financial, communication, financial …) - The Bullwhip effect, Efficient Customer Response (ECR) - Value chain (enterprise, company) - Management - Replenishment - Distribution - Logistics services (1, 2, 3 and 4 PL) - Modeling: Supply Chain Operations Reference-Model (SCOR) - Management methods: Collaborative Planning Forecasting and Replenishment (CPFR), Shared Supply Management (GPA), Vendor Managed Inventory (VMI) - Tools: Warehouse Management System (WMS), Advanced Planning Systems (APS), Transport Management System (TMS), Customer Relationship Management (CRM), Supplier Relationship Management (SRM) **Distribution (3hC, 6.5hTP) :** - Definition of logistics networks - Smoothing the transport flow - Trade off Cost services - KPI of distribution center - Order Penetration Point (OPP) - Distribution networks (direct, indirect, warehouse, retail distribution - Wrap up - Back up : facilities/ delivery time
Course sharing	☒ All ☐ Lecture ☐ Tutorial ☐ Lab sessions ☒ None
Tutor	Pierre NICOLAY pierre.nicolay@icam.fr

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Metallic materials – Energy department
EC06-Mat

Duration	2 to 4 days	Total hours	9 h- Lecture
Level	1st Year (BSc)	Language:	English
Desired period	From: February to June 2024		

Course content	**Developed skills :** ● Know the different categorizations of materials (periodic classification, bonding categorization, etc.). ● Understanding of the physico-chemical phenomena of materials ● Know how to select, carry out and analyze a few materials characterization tests (mechanical or physicochemical). ● Know how to analyze and exploit phase diagrams. ● Know the basic techniques for preparing, observing and recognizing structures (IR/UV spectroscopy, X-ray diffractometry, metallography, calorimetry, tensile/compression tests). ● Understanding of metal deformation mechanisms (stress-strain diagrams for alloys, etc.) **Content:** ● Material classes from the periodic table, material properties and material applications, ● Atomic and molecular bonds, ● Crystallography and metals, ● Formation and constitution of materials, ● Main types of materials: metallic ... ● Physico-chemical characterization of materials ● Defects in materials (binary alloys, etc.) ● Mechanical properties of materials (metals and alloys) ● Illustrated by examples, case studies and applications.
Course sharing	☐ All ☒ Lecture ☐ Tutorial ☐ Lab sessions ☐ None
Tutor	Your name - gregoire.chabrol@icam.fr

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