

Mechanical Engineering Master at





SGM Contacts

Director



Pr. François Gallaire

Deputy



Dr Alain Prenleloup

Secretary



Mme Anne Legrand

Apprentice



Mme Asha Baskaralingam



MSc curriculum (120 ECTS)

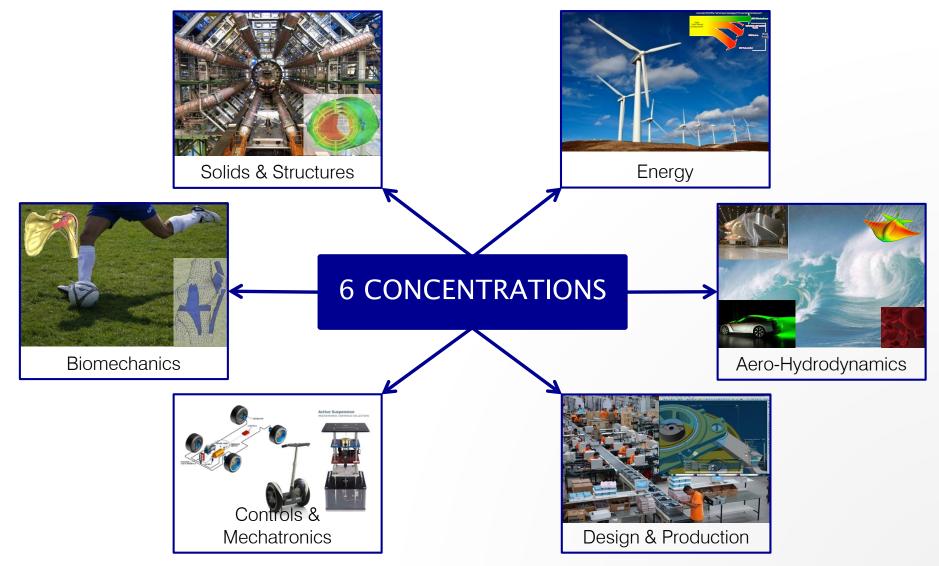
« GROUPE »	Electives in Mechanical Engineering Concentration: ≥18 ECTS (Excel form on sgm.epfl.ch)	≥44 ECTS
« GROUPE »	Other electives / Minor	≥30 ECTS

FOC *	1 Semester Project in Mechanical Engineering	10 ECTS
С ×	SHS Course + Project	6 ECTS

Internship and Master Project in Mechanical Engineering	30 ECTS
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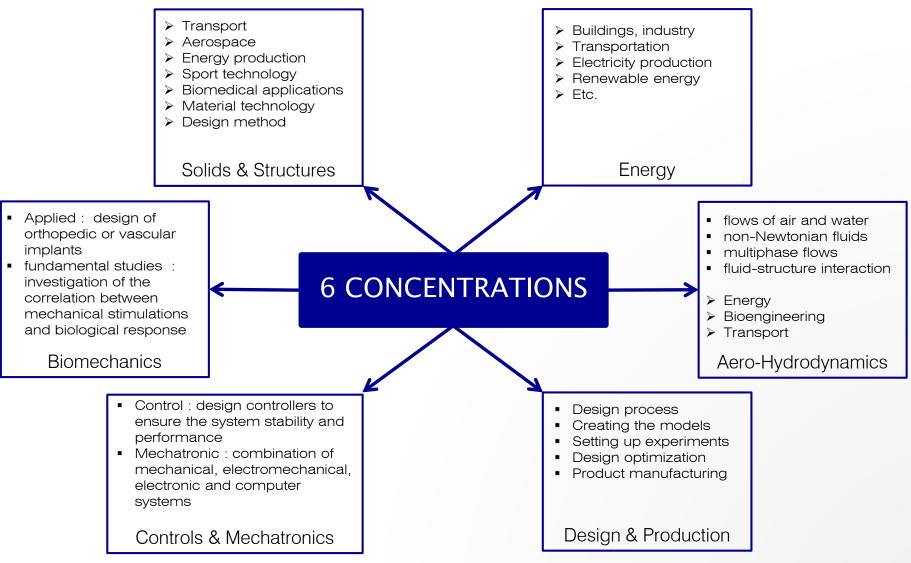


MSc Concentrations





MSc Concentrations





Control and mechatronics



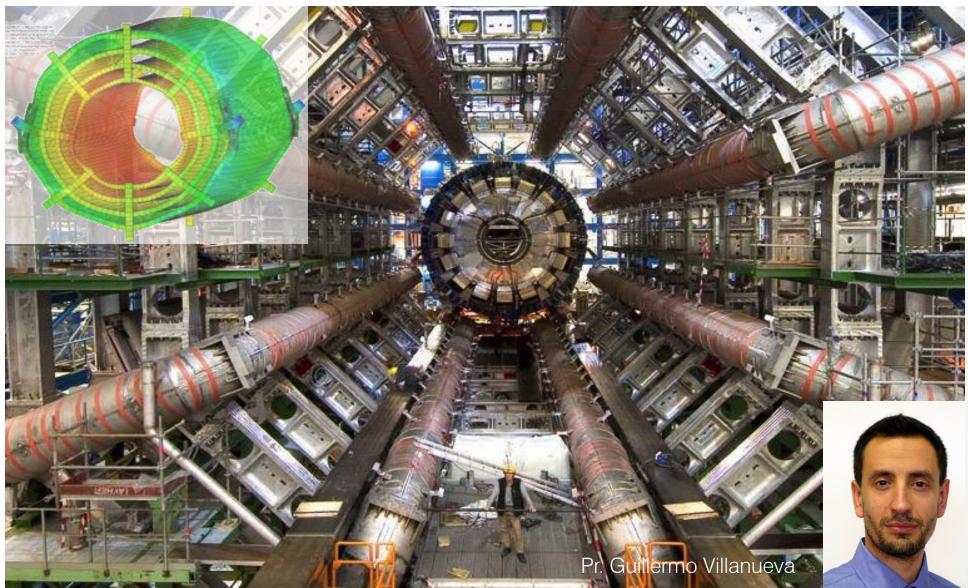


Biomechanics



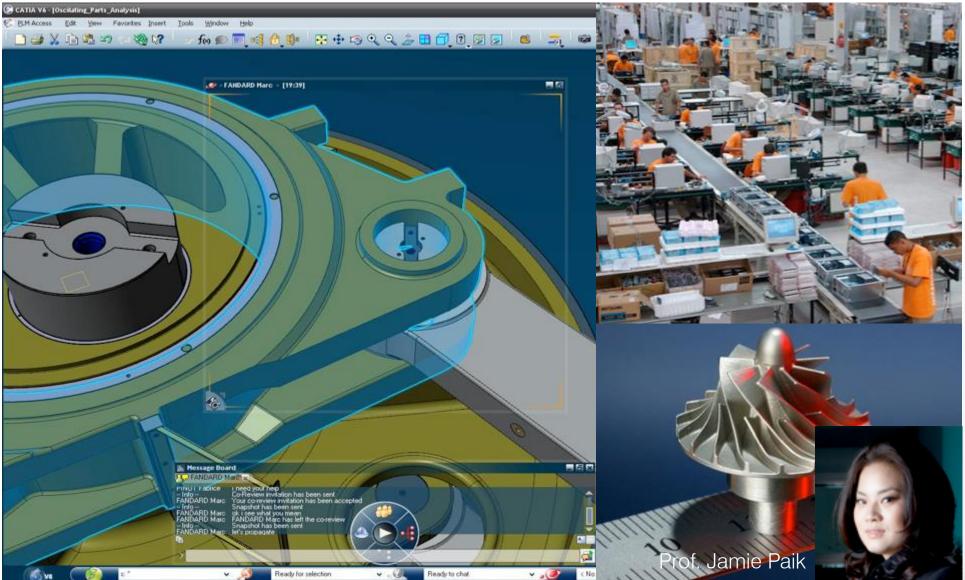


Mechanics of solids and structures







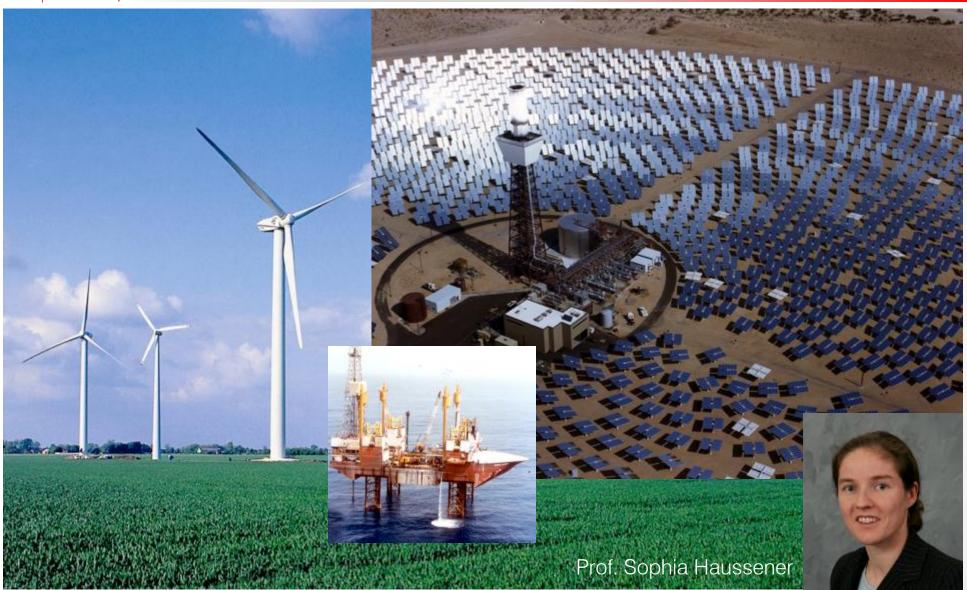


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SGM Section de Génie mécanique

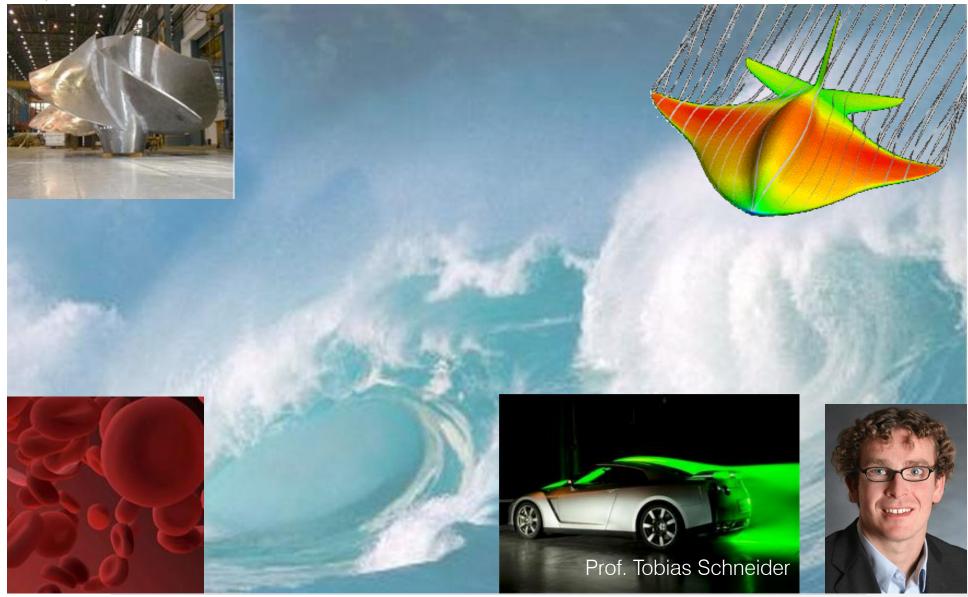








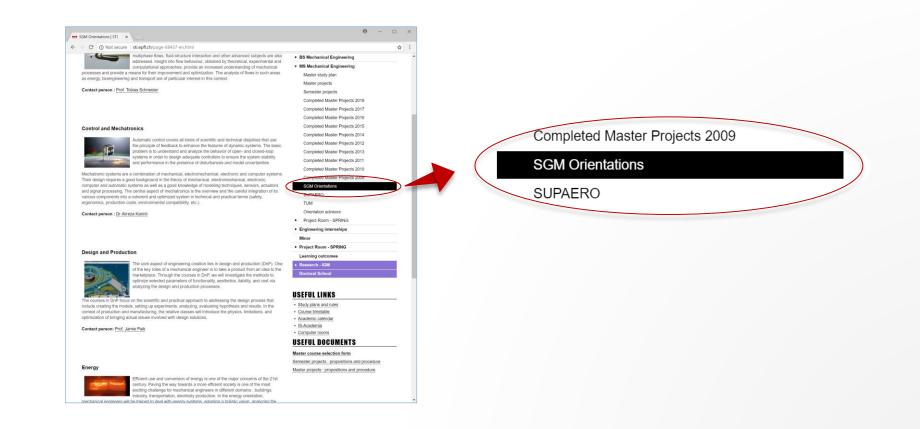
Aero-Hydrodynamics





Where to find the orientations ?

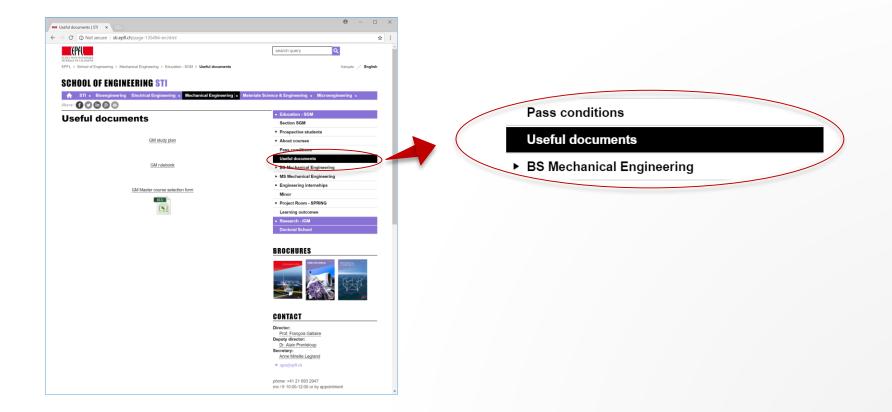
//EPFL/STI/Mechanical engineering/Education-SGM/SGM orientations/





How to choose and register for courses?

//EPFL/STI/Mechanical engineering/Education-SGM/Useful doc/





It is the student's responsibility to have a study plan that complies with the rules (Art. 12 al. 5)

- Art. 12 Choix des branches
- (5) L'étudiant est responsable de la conformité au règlement du choix des branches.

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tudiant:	Prénom et nom de l'étudiant							
Date:	jj.mm.aaaa							
ilière:	aucune							
Conseiller:	aucun							
lineur:	aucun							
/isa conseil	ler de filière:							
	Cours	Code	ECTS	Semestre d'enseign ement	Semestr e dans le plan	Filière		
	Cours	#N/A	0	#N/A	à définir	aucune		1
	Cours Cours	#N/A #N/A	0	#N/A #N/A	à définir à définir	aucune aucune		
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Cours BA	Coors	*19/25		#B(A	à définir	aucune		
	Projet Génie Mécanique I	ME-401	10	Aut./Prin.	à définir à définir	_		1
Bloc Projets	SHS: Introduction au projet SHS: Projet		3	Aut. Prin.	à définir à définir			
					à définir			
					à définir			
Σ					à définir à définir			
Cours hors SGM					à définir			
5					à définir			
Ĕ					à définir			
ŝ					à définir à définir			
ő					à définir			
					à définir			
					à définir			
	Respect du reglement							
	Nombre total d'ECTS (≥ 90)		16					
	Nombre d'ECTS en SGM (≥ 44)		0					
	Nombre d'ECTS de filière (≥ 18)		0					
	Nombre d'ECTS du Mineur (≥ 30)		0					
	Charge de travail par semestre						L	
	Nombre d'ECTS 1er semestre (≥ 25 et ≤35)		0					
	Nombre d'ECTS 2ème semestre (≥ 25 et ≤35)		0					
	Nombre d'ECTS 3ème semestre (≥ 25 et ≤35)		0					
	Approbation du Directeur de Section pour cours BA requise.							
					al/mg, 16.	12.2015		
	Signature:							

Concentration: not mandatory!

Concentration advisor's signature: needed only if you do a concentration

44 + ECTS From the list on the 2nd sheet + 2 Bachelor courses (to be approved by Section Director)

16 ECTS Semester project + SHS

30+ ECTS Minor or any courses including those from the list on the 2nd sheet

Becomes green if your plan complies with the rules

Suggested workload 25-35 ECTS / semester

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				Ē	ă	Conception et Production	Energie Mécanique des solides et des structures	tue				
				Ad	¥.	ũ 🖣	5					
Cours	Fiche	Code	Enseignant	Α	B	CI	DE	F	ECTS	Sem.	Exam.	t i
Advanced control systems			Karimi						3	Prin.		
	IIIIK	ME-524			B	<u> </u>	<u>.</u>				sans retrait/no withdrawal	
Advanced energetics	link	ME-451	Maréchal				D		5	Aut.		1
Advanced heat transfer	link	ME-465	Haussener		- T		D	T	3	Prin.		T
Aerodynamics	link	ME-445	Mulleners	A			DE		3	Aut.		t
Aéroélasticité et intéraction fluide-structure	link		Farhat	A			DE		3	Aut.		ł
	IIIIK	ME-435										ļ (
Applied mechanical design	link	ME-403	Schiffmann			C			4	Aut.	sans retrait/no withdrawal	1
Bases de la robotique	link	MICRO-450	Bleuler/Bouri		B	C			3	Aut.		I
Biomechanics of the cardiovascular system	link	ME-481	Stergiopulos	Α			F	F	3	Prin.		t
Biomechanics of the musculoskeletal system	link	ME-482	Pioletti					F	5	Aut.		ł
Biomechanics of the musculoskeletal system									5 3			ł
Cavitation et phénomènes d'interface	link	ME-462	Farhat	Α			D			Aut.		1
Commande non linéaire	link	ME-523	Müllhaupt		В	C		F	3	Aut.		
Composites polymères + TP	link	MSE-340	Bourban/Michaud		·····		E	F		Aut.	I	T
Computer-aided engineering	link	ME-417	Stroud			c ·			5	Prin.	t	t
Composite polymerse + TP Computer-aided engineering Conception mecanique intégrée	link	ME-418	Schorderet	·····		c c	···· ; ; ;	F	4 5 3	Prin.	•	t
Conception mecanique integree			Schorderet		ļ	<u>-</u>						ł
bynamigde numerique des solides et des scructures	link	ME-473	Gmür	Α		C	E	F	5	Prin.		1
Engines and fuel cells	link	ME-551	van Herle	Α			D	1	4	Aut.		1
Fabrication assistée par ordinateur	link	ME-416	Kyritsis			C		T	5	Aut.	I	T
Flow of dispersed media	link	ME-463	vacat	Α		÷÷	E	· • · · · ·	3	Aut.	t	t
Fracture mechanics		ME-403		-		<u>.</u>	Ē	F				ł
	link		Botsis/Cugnoni			۰.			4	Prin.		ł
Hydraulic turbomachines	link	ME-453	Avellan	Α			D		4	Aut.		l I
Hydrodynamics	link	ME-444	Gallaire	Α			DE	F	5	Prin.		T
Hydrodynamique acoustique	link	ME-443	Nicolet	Α			D	F	5 3	Prin.		t
Instability	link	ME-466	Gallaire	A					3	Aut.		t
Tabas dusting to such as a single sectors		ME-464	Pautz/Hursin	-			D					ł
Introduction to nuclear engineering	link								2	Prin.		ļ .
Lifecycle performance of product systems	link	ME-516	Kyritsis			C	D		3	Prin.		1
Mechanical product design and development	link	ME-410	Paik			C		1	4	Aut.	sans retrait/no withdrawal	I
Mechanics of composites	link	ME-430	Curtin		T	C C	E	F	5	Aut.		t
Methods for rapid production and development	link	ME-415	Boillat E.			<u> </u>			5 3 3	Aut.		t
Medial predictive seeted	link	ME-425	Jones		в	×		······		Prin.		ł
Model predictive control					D							ļ .
Modelling and optimization of energy systems	link	ME-454	Maréchal				D		4	Prin.		1
Multi-body simulation	link	ME-475	Sakar			- 11	D		3	Prin.		
Numerical flow simulation	link	ME-474	Sawley	Α			D	F	5	Aut.		I
Numerical methods in biomechanics	link	ME-484	Terrier				· · · · ·	F	3	Prin.		t
Numerical methods in heat transfer	link	ME-571	Magnini	A			D		3	Prin.	cane retrait/no withdrawal	t
Particle-based methods	link	ME-476	Sawley	A					4	Prin.	sans retrait/no withdrawal	ł
Particie-based methods	1111N			- <u> </u>					5		sans retrait/no withdrawal	ł
Production management	link	ME-419	Yoo			C				Aut.		ļ (
Projet Génie mécanique II	link		Divers enseignants						10	Aut./Prin.	sans retrait/no withdrawal	1
Renewable energy (for ME)	link	ME-460	Haussener/Van Herle	A			D	1	4	Prin.		I I
Robotique industrielle et appliquée	link	MICRO-451	Bleuler/Bouri		В	C		1	2	Prin.		t
Simulation and optimisation of industrial applications	link	ME-499	Yoo			C		·••····	4	Prin.	sans retrait/no withdrawal	ŧ
System identification	link	ME-421	Karimi		B		DE		3	Aut.		ł
System identification		PIE-421				2			2		sans retrait/no withdrawal	ł
Systèmes mécatroniques Thermal power cycles and heat pump systems	link	ME-424	Agbeviade		B	C .			5	Prin.		l I
Thermal power cycles and heat pump systems	link	ME-459	Kane				D	1	2	Prin.		
Turbomachines thermiques	link	ME-455	Ott	A			D	T	5 2 5	Aut.	[t
Turbulanca	link	ME-467	Schneider	A					3	Aut.		t
Turbulence Two-phase flows and heat transfer	link	ME-446	Thome/Saenen/Marcinichen	A			D	·•••····	5	Aut.	cane retrait/requilthday	t
	IIIIK				_	_	<u>.</u>	_			sans retrait/no withdrawal	
Advanced satellite positioning	link	ENV-542	Botteron/Skaloud	İ	B	l			4	Prin.		1
Applied machine learning	link	MICRO-455	Billard		B				- 4	Aut.		
Assembly techniques	link	MSE-464	Plummer/Weber				E	1	2	Prin.		1
Biophysics I	link	PHYS-301	Manley			İr		F	3	Prin.	I	ľ
Biophysics I	link	PHYS-302	Verkhovskiy					Ē	4	Aut.	1	t
	link			·				•••			•	t
Capteurs	link	MICRO-330	Renaud/Boero		B			······		Prin.	•	ł
Commande d'actionneurs à l'aide d'un microprocesseur + TP		MICRO-510	Koechli+Koechli/Hodder/Perriard		B			·•	2	Prin.		ł
Composites technology	link	MSE-440	Bourban/Michaud	İ					3	Aut.		ł.
Computational motor control	link	CS-432	Ijspeert		B				4	Prin.		1
Computer simulation of physical systems I	link	PHYS-403	Pasquarello	Α				1	4	Aut.		
Convex optimization and applications	link	CS-454	Lebret	1	B	T		1	4	Prin.		I .
Corrosion et protection des métaux + TP	link	MSE-311	Mischler			C		·••···	3	Prin.	1	t i
	link	MCE-210				*		·••···			t	t
Déformations des matériaux	link	MSE-310	Logé					· • • • • • • • • • • • • • • • • • • •		Aut.	l	ł
Distributed intelligent systems		ENG-466	Martinoli	·	B				5	Aut.		ł
Dynamical system theory for engineers	link	COM-502	Thiran		B				4	Aut.		ł.
Environmental transport phenomena	link	ENG-420	Porté Agel+Crouzy	A				1	5	Aut.		1
Evolutionary robotics	link	MICRO-515	Floreano			1	1	F	4	Prin.		1
Haptic human robot interfaces	link	MICRO-553	Bleuler/Bouri		В	T		T	3	Prin.		ľ –
Image optics	link	MICRO-421	Herzig/Scharf		-			·••···		Prin.	1	t
	liek							······				t
Industrial automation	10.0 K	CS-487	Pignolet-Oswald/Tournier	·	B	····-			<u> </u>	Prin.		ł
Integrated transducers and drives	link	EE-461	Köchli		B		ļ			Aut.		ł
Laser microprocessing	link	MICRO-520	Hoffmann			C				Prin.		1
Life cycle engineering of polymers	link	MSE-430	Leterrier				E	1	2	Aut.		
Materials selection	link	MSE-474	Vaucher/Michler/Siegmann		T		E	1	2	Prin.		T I
Numerical approximation of PDE's I	link	MATH-451		Α				· [· · · · ·	5	Aut.		t
	link		Nobile					·····				t
Numerical methods for conservation laws		MATH-459	Hesthaven	Α						Aut.		ł
Physiologie par systèmes II	link	BIO-377	Roy			l		F.	4	Prin.		l I
Propagation of acoustic waves	link	EE-549	Martin			T	E	1	3	Aut.		
Recycling of materials	link	MSE-463	Leterrier	· · · · ·		С			2	Prin.	T	T I
Robotics practicals	link	MICRO-453	Billard/Floreano/Mondada	·····		-				Prin.	sans retrait/no withdrawal	t
	lieb	EE-EOF	Misellier		B	-		·+····	2	Dela.	asita recremento wichorawal	t
Space mission design and operations	IIIIK	EE-585	Nicollier			<u>c</u>		·•	2	Prin.		ł
Statique II	link	CIVIL-224	Lestuzzi/Vurpillot	l		l			. 4	Prin.		1
Supply chain management	link	MGT-526	Seifert			С		1	4	Prin.		
Surface analysis	link	MSE-351	Muralt/Stolichnov/Mischler		- T	C		1	3	Aut.		I I
Systèmes embarqués microprogrammés	link	EE-310	Atienza		в			·••···	4	Aut.	1	t i
Systèmes embarqués microprogrammés	link			·		-		·····			•	t i
Techniques d'assemblage		MICRO-440	Chautems			C				Prin.		ł
Technologie et mise en œuvre des polymères +TP	link	MSE-360	Månson/Plummer+Plummer				E		4	Aut.		ł.
Tribology	link	MSE-485	Mischler			1	E		2	Aut.		L
						-	-		_	1		

Filière

Already proposed by IS-Academia in the Groupe « Options »

To be looked up and placed in the Groupe « Options »



What are the learning prerequisites ?

//edu.epfl.ch/studyplan/master/mechanical-engineering

isa.epfl.ch/imoniteur_iSAP/litffichecours.htm?ww_i_matiere=1657739114&ww_x_anneeAcad=2015-20 📖 📼	C Continous control	courses -> 12 III
🚥 SGM 🚥 IGM 🍕 ISA Secured 🚥 ISA Public	semester 1	
Mechanics of composites	Semester	Exam form
mechanics of composites	Fall	Written
ME-430	Credits	Subject examined
Course Book	6	Mechanics of composite
Course Book	Lecture	Exercises
Lecturer(s) :	3 Hour(s) per week x 14	1 Hour(s) per week x 14
Curtin William	weeks	weeks
Rajan Varun Parameswaran	100000000000000000000000000000000000000	S DESCRIPTION IN
Language:	 Mechanical Enginee semester 3 	ring, 2015-2016, Master
R English	semester 3	
Students will learn how to compute elastic, thermal, and other properties of composites as a function of materia	DECEDENCE WI	EW
Students will learn how to compute elastic, thermal, and other properties of composites as a function of materia and geometry; understand damage modes and strength limits for various classes of composites (polymers,	IS NEFENENCE WI	ER.
metals, caramics reinforced with particles or fibers).	Mo Tu	We Th F
	8-9	
CONTENT	9-10 CMost	
The course will consist of a systematic development of the mechanical models for predicting, or interpreting	10-11	
experimental results on, the mechanical properties of composites, including homogenized continuum	11-12	
response, damage mechanisms, strength/toughness, across the full spectrum of materials and geometries	12-13	
of current and future composite materials.	14-15	
 Introduction on the scope of composite materials and applications 	15-16 CM0	
 Inclusions in a matrix: the Eshelby problem 		
 Multiple inclusions, effective material properties, and homogenization concepts 	16-17 CM/	
 Multiphase systems, anisotropic materials, plastic response, polycrystals and hierarchical systems 	17-18	
Review of Fracture Mechanics concepts Damage Mechanisms in particulate composites	18-19	
 Damage mechanisms in particulate composites Damage mechanisms in fiber-reinforced composites (polymer, metal, ceramic matrices) 	19-20	
Long vs. short fiber composites and predictive strength models	20-21	
Mechanics of matrix cracking	21-22	
Polycrystalline ceramics as composites	Lecture Exe	roise, TP Project, o
Damage-tolerant Design concepts		
 Damage mechanics approaches to failure 		
 Biological and Nano composites 	LEGEND	
KEYWORDS		
Composites, Mechanical Behavior, Homogenization, Strength, Failure	Autumn semester	Lecture in French
Composites, Mechanical Berlavicr, Homogenization, Strength, Pallure	Winter sessions	H Lecture in English
LEARNING PREREQUISITES	Spring semester - Summer sessions	ELecture in German
Required courses	· Summer sessions	
Continuum mechanics	-	_
Solid mechanics		
Important concepts to start the course		
 Apply the concepts of rigid and deformable body mechanics and of continuum mechanics to model and analytically solve problems of statics, structural stress analysis or simple 		
 Apply the concepts of rigid and deformable body mechanics and of continuum mechanics to model and analytically solve problems of statics, structural stress analysis or simple mechanisms, S1 		
 Apply the concepts of high and deformable body mechanics and of continuum mechanics to model and analytically solve problems of statics, structural stress analysis or simple mechanisms, S1 Model with appropriate tools (analytical or numerical) the nonlinear (hyperelastic, plastic, 		
 Apply the concepts of rigid and deformable body mechanics and of continuum mechanics to model and analytically solve problems of statics, structural stress analysis or simple mechanisms, S1 		
Apply the concepts of rigid and deformable body mechanics and of continuum mechanics to model and analycially colve problems of statics, structural attress analysis or simple mechanisms. (In additional problems of statics, structurated behavior of structures and methanisms, budding) and/or behavior of structures and material behavior of structures and material behavior of structures and material behavior.)		
 Apply the concepts of rigid and deformable body mechanics and all continuum mechanics to model and analytically soble problems of riskina, includus stress analysis or simple Model with supervise bolk intradiction contraction (by contract, booking), and/or time-dependent (viscoplastic), biological particle, biological		
 Apply the concepts of right and deformable body metabolis and of confinuum mechanics to model and analyzed synchropothemic of halders, structures af energy analysis or simple mechanisms. 91 Model with appropriate body (amylights conversible) through the provide structures body and analyzed analysis of the structures and metabolisms. The structures and metabolism under complex locatings, 812 		
 Apply the scoreces of rigid and deformable body metabolis and a confinuum mechanics to mechanics and apply applications of haldes, structural atress analysis or simple metabolisms, 61 Under with supportaint body (samplication connectivity) for online (possibility, splants, bodding) and/or time-deenedor (picootatistic, viscopiastic) behaviour of structures and material under complex insiders, 812 Basics programming skills in MATLAB or other high-level method Exercising OUTCOMEE By the and of the counts, the student must be able to: 		
 Apply the soncease of rigid and deformable body metaneous and di continuum metaneous to mode and analysically softe problems of tabless, structural stress analysis or simple mechanism, 81 Model with appropriate bodis (analysical or numerical) the northware (hyperalisatic, basic), badding) and/or time-dependently invocation, vicuopitatic), behaviour of structures and material users complex strategy, 1921 Biscis rogramming abits: MATU-Bit rother high-level method Elexisting COMEE 		
Apply the soncease of right and deformable body methods and of continuum metabolics to mode and analysis of anytoperation of the default, subjuct atmost analysis or simple metabolic and and analysis of anytoperature of the default of the def		
Apply the scoreages of right and deformable body metabolis and all ordinizame mechanics to model and analysial synche professional defaults, structural stress analysis or simples mechanisme, 61 Model with appropriate body (amplication currentical) the molecular of structures and material under complex body. Bartly Score (Stress Score Stress Stress Score Stress Stress Score Stress Stress Score Stress Stress Score Stress Stress Score Stress Stress Score Stress Stress Score Stress Stress Stress Score Stress Stress Stress Stress Score Stress Str		

LEARNING PREREQUISITES Required courses Continuum mechanics Solid mechanics Important concepts to start the course Apply the concepts of rigid and deformable body mechanics and of continuum mechanics to model and analytically solve problems of statics, structural stress analysis or simple mechanisms, S1 Model with appropriate tools (analytical or numerical) the nonlinear (hyperelastic, plastic, buckling) and/or time-dependent (viscoelastic, viscoplastic) behaviour of structures and material under complex loadings, S12

· Basic programming skills in MATLAB or other high-level method

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- Create your study plan for the 3 semesters (Excel form)
- If you do a concentration: submit it for approval to the concentration advisor and then to SGM
- A course can count once either in a Minor on in Groupe « options »
- Register for courses in IS-Academia (mandatory)
- Course registration deadline 18-19 Fall semester: 28 Sept.
- You will probably have to modifiy your study plan every semester: update and submit your form



General exam withdrawal deadline for 2018-19 Winter Session: 23 November 2018 It is not possible to withdraw after 28 September from the following courses:

- ME-401 Projet Génie mécanique I (semester project)
- ME-402 Projet Génie mécanique II (semester project)
- ME-524 Advanced control systems
- ME-403 Applied mechanical design
- ME-412 Experimental methods inengineering mechanics
- ME-410 Mechanical product design and development
- ME-476 Particle-based methods
- ME-499 Simulation and optimisation of industrial applications
- ME-421 System identification
- ME-446 Two-phase flows and heat transfer





Recommended Minors

- Energy
- Area and cultural studies
- Management of technology and entrepreneurship
- Computational science and engineering
- Materials science and engineering
- Biomedical technologies
- Spatial technologies

Any other EPFL Minor

Additional information available on Sections' websites and https://sac.epfl.ch/





Registration deadline

- End of the first semester
- Better at the beginning of the semester

Procedure

- Select the minor in IS-Academia
- Contact the Minor advisor
- Fill-in the registration form (copy to SGM)
- Register four courses in IS-Academia
- Withdrawal from a Minor: contact SGM to convert part or all the Minor's ECTS to electives



Semester projects in Mechanical Engineering

- Projects I: mandatory (10 ECTS)
- Project II: elective (10 ECTS)

Registration procedure

- Find a project (Lab websites, contact an SGM teacher)
- Register for the project in IS-Academia and print the registration form
- Get the form signed by the SGM teacher in charge of the project
- Submit the signed form to SGM



SHS (social and human sciences)

//EPFL/CDH/Education/List of SHS courses Master

COLLEGE OF HUMANITIES CDH

Social and Human Sciences (SHS) Teaching MACS Digital Humanities CROSS About CDH

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List of SHS courses Master (MA)

Au niveau Master, l'objectif est de permettre à l'étudiant-e de travailler, le plus souvent en groupe, à l'élaboration d'une problématique et à sa résolution dans une logique de projet. L'enseignement offre des approches interdisciplinaires de thèmes spécifiques qui sont distribués en <u>giv orientations</u>.

Les effectifs sont limités.

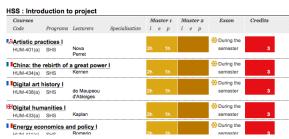
Le Programme SHS se déroule sur deux semestres à suivre de manière consécutive (automne, puis printemps).

Attention

• En cas d'admission exceptionnelle au semestre de printemps, l'étudiant-e ne pourra pas suivre, au semestre de printemps, les enseignements pour lesquels un préalable a été enseigné au semestre d'automne. Ceci est particulièrement le cas pour les branches annuelles ainsi que pour les enseignements SHS. Pour ceux-ci, l'étudiant doit d'abord suivre au semestre d'automne un enseignement de son choix "SHS: introduction au projet" avant de pouvoir suivre l'enseignement "SHS: projet" au semestre de printemps suivant.

Ces contraintes liées aux plans d'études ont comme conséquence que la durée minimale pour effectuer le cycle master est de 3 semestres à cause des enseignements évoqués plus haut, lesquels ne peuvent être suivis que sur une année académique complète.

Sciences humaines et sociales 2015-16 🛛 🖆



The SHS program is over two semesters (Fall-Spring)

REGISTER NOW!



When?

- Before the Master Project (PDM)
- With the Master Project (PDME)

Duration

- \geq 8 weeks, \leq 6 months
- 25 weeks if combined with the Master Project



2 alternatives

- At EPFL under the (co)supervision of an SGM teacher
- Outside EPFL (University or company, combined or not with the internship) under the (co)supervision of an SGM teacher

Duration

- at EPFL: 17 weeks
- outside EPFL: 25 weeks



- You need to pass each exam
- The 44 ECTS in Mechanical Engineering can only come from the list in the Excel sheet
- You need 18 ECTS for an orientation
- If you do a Minor you are not allowed to take any additional ECTS outside Mechanical Engineering
- Begin your SHS this Fall
- To begin you Master Project you must have passed at least 82 ECTS
- Dedicated presentation with Q&A : Monday 25, 13:15 room CM 1 2

