

Prof. François Gallaire



Director

Dr Alain Preneloup



Deputy Director

Anne Legrand



Administration

Colin Leder



Prof. Giancarlo Ferrari Trecate



Promotion sponsor

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JOURNÉE D'ACCUEIL DES ÉTUDIANTS MASTER

Vendredi 17 septembre 2021

Lien Zoom: <https://epfl.zoom.us/j/67431048094>

14h15 – 14h30	CM4	Accueil des nouveaux étudiants Master Présentation de la Section GM (Dr A. Prenleloup)
14h30 – 14h40	CM4	Présentation de la « culture SGM » - Fonction de délégué de classe (Francesca Nicoletti) - Comité AMAC (Antonin Faure)
14h40 -15h45	CM4	Présentation des études Master (Dr A. Prenleloup) - Filières et Mineurs - Projets de semestre et master - Présentation du Stage d'Ingénieur EPFL
17h00		Welcome party EPFL

Studies Plan

Génie mécanique 2021-22

Master project

Courses			Master 1	Master 2	Exam Session	Exam	Credit
Language Code	Section	Teacher	Specialization	h	h		
Engineering internship credited with master project(master in Mechanical engineering)							
F	ME-597	GM	Gautsch Prenleloup	320h	320h	Sum Win	Term paper 0





























Block "Projects"

Courses			Master 1	Master 2	Exam Session	Exam	Credit
Language Code	Section	Teacher	Specialization	h	h		
Mechanical engineering project I							
	ME-401	GM	Profs divers	2h	2h	Sum Win	During the semester
HSS : Introduction to project							
	SHS					Win	3
HSS : Project							
	SHS					Sum	3

Group "options"

Courses			Master 1	Master 2	Exam Session	Exam	Credit
Language Code	Section	Teacher	Specialization	h	h		
Advanced additive manufacturing technologies							
E	MICRO-413	MT	Brugger Moser		2h 1h	Sum	Oral
Advanced control systems							
E	ME-524	GM	Karimi		2h 1h	Sum	Written
Advanced energetics							
E	ME-451	GM	Maréchal	3h 2h		Win	Oral
Advanced heat transfer							
E	ME-465	GM	Hausser		2h 1h	Sum	Written
Advanced solid mechanics							
E	ME-437	GM	Curtin	3h 2h		Win	During the semester
Aerodynamics							
E	ME-445	GM	Mullene	2h 2h		Win	Written
Aeroelasticity and fluid-structure interaction							
F	ME-435	GM	Farhat	2h 1h		Win	Written
Applied and industrial robotics							
E	MICRO-451	MT	Bouri		2h	Sum	Written
Applied mechanical design							
E	ME-403	GM	Schiffman	1h 4h		Win	During the semester
Biomechanics of the cardiovascular system							
E	ME-481	GM	Stergiopoulos		2h 1h	Sum	Written
Biomechanics of the musculoskeletal system							
E	ME-482	GM	Pioletti		2h 1h	Sum	During the semester
Cavitation and interface phenomena							
F	ME-462	GM	Farhat	2h 1h		Win	Oral
Computational multi-scale modeling of solids							
E	ME-414	GM	Derlet	3h 1h		Win	During the semester
Continuous improvement of manufacturing systems							
E	ME-498	GM	Kaboli		2h 2h	Sum	During the semester

E	Data-driven design & fabrication methods ME-428	GM	Hughes	B C	2h	1h	Sum	During the 3 semester	3
E	Engines and fuel cells ME-551	GM	Van Herle	A D	3h		Win	Written	4
E	Experimental methods in engineering mechanics ME-412	GM	Kolinski	A E F	1h	3h	Win	During the 4 semester	4
E	Fundamentals of computer aided manufacturing ME-416	GM	Kyritsis	C	3h	2h	Win	During the 5 semester	5
E	Hydraulic turbomachines ME-453	GM	Avellan Vagnoni	A D	3h	1h	Win	Written	4
F	Hydroacoustique pour aménagements hydroélectriques ME-443	GM	Nicolet	A D F	2h	1h	Sum	Oral	3
E	Hydrodynamics ME-444	GM	Gallaire	A D E F	2h	2h	Sum	Written	5
E	Innovation & entrepreneurship in engineering MGT-555	MTE	Michaud Weber		2h	8h	Win	During the 10 semester	10
E	Instability ME-466	GM	Gallaire	A	2h	1h	Win	Written	3
E	Introduction to additive manufacturing ME-413	GM	Boillat Brugger Moser	C	2h	1h	Win	Written	3
E	Introduction to nuclear engineering ME-464	GM	Fiorina Pautz	D	2h		Sum	Oral	2
E	Lifecycle performance of product systems ME-516	GM	Friot Kyritsis	C D	2h	1h	Sum	During the 3 semester	3
F	Mecatronics ME-424	GM	Agbevia	B C	3h	2h	Sum	Written	5
E	Mechanical engineering project II ME-402	GM	Profs divers	C D E	2h	2h	Sum Win	During the 10 semester	10
E	Mechanical product design and development ME-410	GM	Paik	C E	2h	1h	Win	During the 5 semester	5
E	Mechanics of slender structures ME-411	GM	Nunes Pereira de Almeida Reis	E F	3h	2h	Win	Written	5
E	Mechanobiology: how mechanics regulate life ME-480	GM	Persat Sakar	F	2h	1h	Win	During the 3 semester	3
E	Micro/Nanomechanical devices ME-426	GM	Villanue Torrijo	B C E	2h	2h	Win	Oral	4
E	Micro/Nano robotics ME-436	GM	Sakar	B C E F	2h	1h	Sum	During the 3 semester	3
E	Modelling and optimization of energy systems ME-454	GM	Maréchal	B D	2h	2h	Sum Win	Oral	4
E	Model predictive control ME-425	GM	Jones	B	2h	2h	Win	Written	4
E	Multivariable control ME-422	GM	Ferrari Trecate	B	2h	1h	Win	Written	3

E	Nano-scale heat transfer ME-469	GM	Tagliabue 	2h 1h 1h	Sum	During the 4 semester
E	Networked control systems ME-427	GM	Ferrari  Trecate	2h 1h	Win	Written 3
F	Nonlinear Control Systems ME-523	GM	Müllhau    	2h 1h	Win	Oral 3
E	Numerical flow simulation ME-474	GM	Boujo   	2h 2h	Win	During the 5 semester
E	Numerical methods in biomechanics ME-484	GM	Terrier 	2h 1h	Sum	Written 3
E	Particle-based methods ME-476	GM	Gaume  Li  	1h 1h 2h	Win	During the 4 semester
F	Polymer composites + Laboratory Work MSE-340	MX	Bourbar  Michaud	2h 2h	Win	Oral 4
E	Production management ME-419	GM	Kaboli 	2h 2h	Win	During the 5 semester
E	Renewable energy (for ME) ME-460	GM	Hausser  Van  Herle	2h 1h	Sum	Written 4
E	Solar energy conversion ME-468	GM	Hausser  Herle	2h 1h 1h	Win	Written 4
E	System identification ME-421	GM	Karimi    	2h 1h	Sum	Written 3
E	Thermal power cycles and heat pump systems ME-459	GM	Schiffman  Van Herle	2h 1h	Sum	Written 3
F	Thermal turbomachines ME-455	GM	 	4h 1h	Win	Written 5
E	Turbulence ME-467	GM	Schneid 	3h 1h	Sum	During the 4 semester
E	Two-phase flows and heat transfer ME-446	GM	Gallaire  	2h 1h	Win	Written 3

Horaire	Salles		Matières	Engagements
MARDI				
09:15-10:00	GRA331	C	OPT Multivariable control	Enseignant-e(s): Ferrari Trecate Giancarlo
09:15-11:00	CM1103 INJ218	C	OPT Numerical flow simulation	Enseignant-e(s): Boujo Edouard
10:15-11:00	AAC137	C	OPT Applied mechanical design	Enseignant-e(s): Schiffmann Jürg Alexander
10:15-11:00	GRA331	C	OPT Multivariable control	Enseignant-e(s): Ferrari Trecate Giancarlo
10:15-12:00	MED21522	C	OPT Micro/Nanomechanical devices	Enseignant-e(s): Villanueva Torrijo Luis Guillermo
11:15-12:00	GRA331	E	OPT Multivariable control	Enseignant-e(s): Ferrari Trecate Giancarlo
11:15-13:00	CM1103 INJ218	E	OPT Numerical flow simulation	Enseignant-e(s): Boujo Edouard
11:15-15:00	AAC137	P	OPT Applied mechanical design	Enseignant-e(s): Schiffmann Jürg Alexander
12:15-14:00	MED21522	E	OPT Micro/Nanomechanical devices	Enseignant-e(s): Villanueva Torrijo Luis Guillermo
13:15-15:00	ELA1	C	OPT Aerodynamics	Enseignant-e(s): Mulleners Karen Ann J
14:15-16:00	MED21522	T	OPT Mechanics of slender structures	Enseignant-e(s): Nunes Pereira de Almeida Reis Pedro Miguel
15:15-17:00	ELA1	E	OPT Aerodynamics	Enseignant-e(s): Mulleners Karen Ann J
16:15-17:00	CM1100 CM1103	C	OPT Advanced solid mechanics	Enseignant-e(s): Curtin William
16:15-18:00	MEB331	C	OPT Cavitation et phénomènes d'interface	Enseignant-e(s): Farhat Mohamed
17:15-19:00	CM1100 CM1103	E	OPT Advanced solid mechanics	Enseignant-e(s): Curtin William
18:15-19:00	MEB331	P	OPT Cavitation et phénomènes d'interface	Enseignant-e(s): Farhat Mohamed
MERCREDI				
08:15-11:00	MED21522 MED22419 MED31424 MED31519 MED31523	T	OPT Experimental methods in engineering mechanics	Enseignant-e(s): Kolinski John Martin
10:15-12:00	GCA330	C	OPT Aéroélasticité et interaction fluide-structure	Enseignant-e(s): Farhat Mohamed
11:15-12:00	MED21522 MED31424 MED31519 MED31523	C	OPT Experimental methods in engineering mechanics	Enseignant-e(s): Kolinski John Martin
12:15-13:00	GCA330	E	OPT Aéroélasticité et interaction fluide-structure	Enseignant-e(s): Farhat Mohamed
12:15-15:00	GCA1416	C	OPT Computational multi-scale modeling of solids	Enseignant-e(s): Derlet Peter
13:15-15:00	ELA1	C	OPT Networked control systems	Enseignant-e(s): Ferrari Trecate Giancarlo
14:15-16:00	CE1106	C	OPT Mechanobiology: how mechanics regulate life	Enseignant-e(s): Persat Alexandre Louis André, Sakar Mahmut Selman
15:15-16:00	ELA1	E	OPT Networked control systems	Enseignant-e(s): Ferrari Trecate Giancarlo
15:15-16:00	GCA1416	T	OPT Computational multi-scale modeling of solids	Enseignant-e(s): Derlet Peter
16:15-17:00	CE1106	E	OPT Mechanobiology: how mechanics regulate life	Enseignant-e(s): Persat Alexandre Louis André, Sakar Mahmut Selman
16:15-19:00	INJ218	C	OPT Engines and fuel cells	Enseignant-e(s): Van Herle Jan
16:15-19:00			SHS : Introduction au projet	
JEUDI				
08:15-09:00	CM1110 MAA110	C	OPT Particle-based methods	Enseignant-e(s): Gaume Johan Alexandre Philippe, Li Xingyue
08:15-11:00	CM010	C	OPT Mechanics of slender structures	Enseignant-e(s): Nunes Pereira de Almeida Reis Pedro Miguel
09:15-10:00	CM1110 MAA110	E	OPT Particle-based methods	Enseignant-e(s): Gaume Johan Alexandre Philippe, Li Xingyue
10:15-12:00	AU17005	C	OPT Hydraulic turbomachines	Enseignant-e(s): Avellan François, Vagnoni Elena
10:15-12:00	CM1110 MAA110	T	OPT Particle-based methods	Enseignant-e(s): Gaume Johan Alexandre Philippe, Li Xingyue
13:15-14:00	AU17005	C	OPT Hydraulic turbomachines	Enseignant-e(s): Avellan François, Vagnoni Elena
14:15-15:00	AU17005	E	OPT Hydraulic turbomachines	Enseignant-e(s): Avellan François, Vagnoni Elena
14:15-16:00	CM012	E	OPT Commande non linéaire Tous les 15 jours Semaines paires (selon calendrier civil)	Enseignant-e(s): Müllhaupt Philippe
VENDREDI				
08:15-09:00	GRA330	P	OPT Innovation & entrepreneurship in engineering	Enseignant-e(s): Michaud Véronique, Weber Thomas Alois
08:15-10:00	CM1110	C	OPT Mechanical product design and development	Enseignant-e(s): Paik Jamie

Horaire	Salles			Matières	Engagements
09:15-11:00	MED01418 GRA330	C	OPT	Innovation & entrepreneurship in engineering	Enseignant-e-(s): Michaud Véronique, Weber Thomas Alois
10:15-11:00	MED01418	P	OPT	Mechanical product design and development	Enseignant-e-(s): Paik Jamie
10:15-12:00	CHB330	C	OPT	Instability	Enseignant-e-(s): Gallaire François
11:15-18:00	GRA330	P	OPT	Innovation & entrepreneurship in engineering	Enseignant-e-(s): Michaud Véronique, Weber Thomas Alois
12:15-13:00	CHB330	E	OPT	Instability	Enseignant-e-(s): Gallaire François
12:15-13:00	CM5	C	OPT	Fundamentals of computer aided manufacturing	Enseignant-e-(s): Kyritsis Dimitrios
13:15-15:00	AAC231 CO015 CO016 CO017	C	OPT	Production management	Enseignant-e-(s): Kaboli Amin
13:15-15:00	CE4	C	OPT	Model predictive control	Enseignant-e-(s): Jones Colin Neil
15:15-17:00	AAC231 CO015 CO016 CO017	P	OPT	Production management	Enseignant-e-(s): Kaboli Amin
15:15-17:00	CE4	E	OPT	Model predictive control	Enseignant-e-(s): Jones Colin Neil

Horaire	Salles		Matières	Engagements
LUNDI				
08:15-10:00	CM1103 CM4	C	OPT Fundamentals of computer aided manufacturing	Enseignant-e-(s): Kyritsis Dimitrios
08:15-10:00	BS260	C	OPT Modelling and optimization of energy systems	Enseignant-e-(s): Maréchal François
09:15-11:00	GRA331	C	OPT Advanced solid mechanics	Enseignant-e-(s): Curtin William
10:15-12:00	CE1104	C	OPT Commande non linéaire	Enseignant-e-(s): Müllhaupt Philippe
10:15-12:00	BS260	E	OPT Modelling and optimization of energy systems	Enseignant-e-(s): Maréchal François
10:15-12:00	CM1105	C	OPT Introduction to additive manufacturing	Enseignant-e-(s): Boillat Eric
12:15-13:00	CM1105	T	OPT Introduction to additive manufacturing	Enseignant-e-(s): Boillat Eric, Brugger Jürgen, Moser Christophe
12:15-13:00	CM1105	T	OPT Introduction to additive manufacturing	Enseignant-e-(s): Boillat Eric, Brugger Jürgen, Moser Christophe
12:15-14:00	CE5	C	OPT Two-phase flows and heat transfer	Enseignant-e-(s): Gallaire François
14:15-15:00	CE5	P	OPT Two-phase flows and heat transfer	Enseignant-e-(s): Gallaire François
14:15-16:00	CM1103 CM1121	E	OPT Fundamentals of computer aided manufacturing	Enseignant-e-(s): Kyritsis Dimitrios
14:15-16:00	BS270	C	OPT Solar energy conversion	Enseignant-e-(s): Haussener Sophia
14:15-16:00	BC01	C	OPT Composites polymères + TP	Enseignant-e-(s): Bourban Pierre-Etienne, Michaud Véronique
14:15-17:00	GCD0386	C	OPT Advanced energetics	Enseignant-e-(s): Maréchal François
16:15-17:00	BS270	E	OPT Solar energy conversion	Enseignant-e-(s): Haussener Sophia
17:15-18:00	BS270	T	OPT Solar energy conversion	Enseignant-e-(s): Haussener Sophia
17:15-19:00	GCD0386	E	OPT Advanced energetics	Enseignant-e-(s): Maréchal François
MARDI				
09:15-10:00	GRA331	C	OPT Multivariable control	Enseignant-e-(s): Ferrari Trecate Giancarlo
09:15-11:00	CM1103 INJ218	C	OPT Numerical flow simulation	Enseignant-e-(s): Boujo Edouard
10:15-11:00	AAC137	C	OPT Applied mechanical design	Enseignant-e-(s): Schiffmann Jürg Alexander
10:15-11:00	GRA331	C	OPT Multivariable control	Enseignant-e-(s): Ferrari Trecate Giancarlo
10:15-12:00	MED21522	C	OPT Micro/Nanomechanical devices	Enseignant-e-(s): Villanueva Torrijo Luis Guillermo
11:15-12:00	GRA331	E	OPT Multivariable control	Enseignant-e-(s): Ferrari Trecate Giancarlo
11:15-13:00	CM1103 INJ218	E	OPT Numerical flow simulation	Enseignant-e-(s): Boujo Edouard
11:15-15:00	AAC137	P	OPT Applied mechanical design	Enseignant-e-(s): Schiffmann Jürg Alexander
12:15-14:00	MED21522	E	OPT Micro/Nanomechanical devices	Enseignant-e-(s): Villanueva Torrijo Luis Guillermo
13:15-15:00	ELA1	C	OPT Aerodynamics	Enseignant-e-(s): Mulleners Karen Ann J
14:15-16:00	MED21522	T	OPT Mechanics of slender structures	Enseignant-e-(s): Nunes Pereira de Almeida Reis Pedro Miguel
15:15-17:00	ELA1	E	OPT Aerodynamics	Enseignant-e-(s): Mulleners Karen Ann J
16:15-17:00	CM1100 CM1103	C	OPT Advanced solid mechanics	Enseignant-e-(s): Curtin William
16:15-18:00	MEB331	C	OPT Cavitation et phénomènes d'interface	Enseignant-e-(s): Farhat Mohamed
17:15-19:00	CM1100 CM1103	E	OPT Advanced solid mechanics	Enseignant-e-(s): Curtin William
18:15-19:00	MEB331	P	OPT Cavitation et phénomènes d'interface	Enseignant-e-(s): Farhat Mohamed
MERCREDI				
08:15-11:00	MED21522 MED22419 MED31424 MED31519 MED31523	T	OPT Experimental methods in engineering mechanics	Enseignant-e-(s): Kolinski John Martin
10:15-12:00	GCA330	C	OPT Aéroélasticité et interaction fluide-structure	Enseignant-e-(s): Farhat Mohamed
11:15-12:00	MED21522 MED31424 MED31519 MED31523	C	OPT Experimental methods in engineering mechanics	Enseignant-e-(s): Kolinski John Martin
12:15-13:00	GCA330	E	OPT Aéroélasticité et interaction fluide-structure	Enseignant-e-(s): Farhat Mohamed
12:15-15:00	GCA1416	C	OPT Computational multi-scale modeling of solids	Enseignant-e-(s): Derlet Peter
13:15-15:00	ELA1	C	OPT Networked control systems	Enseignant-e-(s): Ferrari Trecate Giancarlo
14:15-16:00	CE1106	C	OPT Mechanobiology: how mechanics regulate life	Enseignant-e-(s): Persat Alexandre Louis André, Sakar Mahmut Selman
15:15-16:00	ELA1	E	OPT Networked control systems	Enseignant-e-(s): Ferrari Trecate Giancarlo
15:15-16:00	GCA1416	T	OPT Computational multi-scale modeling of solids	Enseignant-e-(s): Derlet Peter
16:15-17:00	CE1106	E	OPT Mechanobiology: how mechanics regulate life	Enseignant-e-(s): Persat Alexandre Louis

Horaire	Salles			Matières	Engagements
16:15-19:00	INJ218	C	OPT	Engines and fuel cells	André, Sakar Mahmut Selman
16:15-19:00				SHS : Introduction au projet	Enseignant-e-(s): Van Herle Jan
JEUDI					
08:15-09:00	CM1110	C	OPT	Particle-based methods	Enseignant-e-(s): Gaume Johan Alexandre
	MAA110				Philippe, Li Xingyue
08:15-11:00	CM010	C	OPT	Mechanics of slender structures	Enseignant-e-(s): Nunes Pereira de Almeida Reis Pedro Miguel
09:15-10:00	CM1110	E	OPT	Particle-based methods	Enseignant-e-(s): Gaume Johan Alexandre
	MAA110				Philippe, Li Xingyue
10:15-12:00	AU17005	C	OPT	Hydraulic turbomachines	Enseignant-e-(s): Avellan François, Vagnoni Elena
10:15-12:00	CM1110	T	OPT	Particle-based methods	Enseignant-e-(s): Gaume Johan Alexandre
	MAA110				Philippe, Li Xingyue
13:15-14:00	AU17005	C	OPT	Hydraulic turbomachines	Enseignant-e-(s): Avellan François, Vagnoni Elena
14:15-15:00	AU17005	E	OPT	Hydraulic turbomachines	Enseignant-e-(s): Avellan François, Vagnoni Elena
VENDREDI					
08:15-09:00	GRA330	P	OPT	Innovation & entrepreneurship in engineering	Enseignant-e-(s): Michaud Véronique, Weber Thomas Alois
08:15-10:00	CM1110	C	OPT	Mechanical product design and development	Enseignant-e-(s): Paik Jamie
	MED01418				
09:15-11:00	GRA330	C	OPT	Innovation & entrepreneurship in engineering	Enseignant-e-(s): Michaud Véronique, Weber Thomas Alois
10:15-11:00	MED01418	P	OPT	Mechanical product design and development	Enseignant-e-(s): Paik Jamie
10:15-12:00	CHB330	C	OPT	Instability	Enseignant-e-(s): Gallaire François
11:15-18:00	GRA330	P	OPT	Innovation & entrepreneurship in engineering	Enseignant-e-(s): Michaud Véronique, Weber Thomas Alois
12:15-13:00	CHB330	E	OPT	Instability	Enseignant-e-(s): Gallaire François
12:15-13:00	CM5	C	OPT	Fundamentals of computer aided manufacturing	Enseignant-e-(s): Kyritsis Dimitrios
13:15-15:00	AAC231	C	OPT	Production management	Enseignant-e-(s): Kaboli Amin
	CO015				
	CO016				
	CO017				
13:15-15:00	CE4	C	OPT	Model predictive control	Enseignant-e-(s): Jones Colin Neil
15:15-17:00	AAC231	P	OPT	Production management	Enseignant-e-(s): Kaboli Amin
	CO015				
	CO016				
	CO017				
15:15-17:00	CE4	E	OPT	Model predictive control	Enseignant-e-(s): Jones Colin Neil