Studies Plan

Génie mécanique 2025-26

Block 1

	Courses			Bachelor 3	Bachelor 4	Bachelo	v E	Bachelor 6	Exam	Exam	Credit
	Courses			Dacrieior 3	Dacrieioi 4	Dacrieio)	Dacrieior o	Session	Exaili	Credit
Lang.	. Code	Sect.	Teacher	CELTPI	CELTI	PICEL	TPI	CELTPI			
	Analysis III										
Ε	MATH-202(c)	MA	Antolin Sanchez	3h 2h					Win	Written	5
	Analysis IV (fo	or EL, G	SM, MX)								
Ε	MATH-207(c)		Moschidis		2h 2h				Sum	Written	4
	General physi	cs:									
	electromagne	tism									
E	PHYS-201(b)	PH	Ramirez-San	- <i>JuA</i> ahn≀2h					Win	Written	6
	Mechanics of	structu	res (For								
	GM)										
F	ME-232	GM	Prenleloup Shea	3h 1h					Win	Written	4
	Numerical ana	alysis									
F	MATH-251(e)	MA	Pouchon		2h 2h				Sum	Written	4
	Probability an	d statis	tics								
F	MATH-234(d)	MA	Zemel		2h 1h				Sum	Written	3
	Sustainable p	roducts	and								
	supply chains	;									
E	ME-203	GM	Kaboli		2h ′	1h			Sum	During the	3
			Wakeman							semester	
	Thermodynam energetics I	nics and	d								
E	ME-251	GM	Haussener Lu	3h 1h					Win	Written	4

Block 2

	Courses			Bachelor	. 3	Bachelor 4	Bachelor 5	Bachelor 6	Exam Session	Exam	Credit
Lang.	Code	Sect.	Teacher	C E L	TPI	CELTPI	CELTPI	CELTPI			
	Dynamical sys	stems									
E	ME-221	GM	Sakar			2h 1h			Sum	Written	3
	Fluid mechani	ics (for	GM)								
E	ME-280	GM	Schneider			3h 1h			Sum	Written	4
	Industrial prod	duction									
	processes										
F	ME-212	GM	Boillat			4h			Sum	Written	4
	Mechanical be	haviou	r of								
	materials										
F	MSE-234	MX	Gheysen	3h	1h				Win	Written	4
			Hernandez								
			Escobar								
			Mortensen								
	Mechanical sy	stems									
F	ME-202	GM	Soubielle			2h 2h			Sum	Written	4
	Programmatio	n pour									
	ingénieur										
F	ME-213	GM	Salzmann	2h 1h	1h				Win	During the semester	4

Block 3

	Courses		Bachelor 3 Bachelor 4 I		Bachelor 5		Bachelor 6		Exam Session	Exam	Credit			
Lang.	. Code	Sect.	Teacher	CEI	L T P I	C E L	TPI	C E L	TPI	C E L	TPI			
	Control system	ms + TF	•											
Ε	ME-321	GM	Jones					3h	1h			Win	Written	4
			Salzmann											
	Dynamical eff	ects in												
	mechanical de	esign												
F	ME-311	GM	Schiffmann							1h 1h	1h	Sum	Written	3
	Electrical machines (for ME)													
F	EE-382	EL	Hodder					2h	1h			Win	Written	3

	Electronics							
F	EE-280	EL	Meinen	2h 1h		Win	Written	3
			Sallese					
	Finite elemen	nt metho	od					
F	ME-372	GM	Burzio	2h 1h		Win	Written	3
			Gallaire					
	Foundations	of artifi	cial					
	intelligence							
E	ME-390	GM	Kamgarpour	2h 1h		Win	Written	3
	Heat and mas		fer					
Е	ME-341	GM	Tagliabue		3h 1h	Sum	Written	4
'	Introduction							
	and operation		arch					
Е	MATH-265	GC	Bierlaire	2h 2h		Win	Written	4
	Mechanical v							
F	ME-332	GM	Villanueva	3h 1h		Win	Written	4
	Product deve		t and					
	engineering of							
Ε	ME-320	GM	Hughes	2h	1h	Win	During the semester	3
-	Solid mechar	nics						
Ε	ME-331	GM	Reis		3h 1h	Sum	Written	4

Block 4

	Courses			Bachelor 3	Bachelor 4	Bachelor 5	Bachelo	or 6	Exam Session	Exam	Credit
Lang.	Code	Sect.	Teacher	CELTPI	CELTPI	CELTPI	CEL	TPI			
	Advanced me	chanisr	ns for								
	extreme envir	onment	ts								
F	MICRO-372	MT	Cosandier				2h 1h		Sum	Written	3
	Compressible										
<u>F</u>	ME-343	GM	Gallaire				3h 1h		Sum	Written	4
	Discrete-time		of								
	dynamical sys										
<u>F</u>	ME-324	GM	Müllhaupt				2h		Sum	Written	2
	Discretization	metho	ds in								
_	fluids								_		_
<u>F</u>	ME-371	GM	Burzio				2h 1h		Sum	Written	3
	Elements of s	tatistics	s tor								
_	data science	_,	A 42.111				01-41-		0	14/-2//	0
F	EE-209	EL	Müllhaupt				2h 1h		Sum	Written	3
	Experimental		is in								
F	biomechanics ME-380	GM	Pioletti					1.5 h .5h	C	Description as the a	2
								nc.mc.r	Sum	During the semester	3
	Finite elemen	t model	ling and								
	simulation										
F	ME-373	GM	Boujo				1h 1h	1h	Sum	During the semester	3
	General physi										
F	PHYS-207(c)		Pasquarello				2h 2h		Sum	Written	4
_	Introduction t										-
_	turbomachine								_		
<u>E</u>	ME-342	GM	Yim				2h		Sum	Written	2
	Matrix analysi								_		
<u>F</u>	EE-312	EL	Vandergheyns	t			2h 1h		Sum	Written	4
_	Microinforma								_		
F	ME-303	GM	Müllhaupt				2h	2h	Sum	During the semester	4
	Thermodynan	nics and	d								
	energetics II										
Ε	ME-351	GM	Raju				2h 1h		Sum	Written	3
			Natarajan								

Block 5

	Courses		Bachelor 3	Bachelor 4	Bachelor 5	Bachelor 6	Exam Session	Exam	Credit	
Lang	Code Concurrent er	Sect.	Teacher	CELTPI	C E L T P I	C E L T P I	C E L T P I	Cocoion		
	project ME-314	GM	Profs				El	n Sum	During the	E
	IVIE-314	GIVI	divers				31	i Suili	During the semester	

Measurement techniques
ME-301 GM Mulleners Written 1h 3h Sum 4

Transverse block HSS

	Courses			Exam Session	Exam	Credit
Lang.	Code	Sect.	Teacher			
	SHS: Bachelo	r cycle	BA6			
F		SHS				2
	HSS : Bachelo	r cycle	BA5			
F		SHS				2
	HSS: Bachelo	r cycle	BA4			
F		SHS				2
-	HSS: Bachelo	r cycle	BA3			
F		SHS				2