



Cecilia María Sartori – Spanish<=>English Translator - Member of NZSTI  
 ceciliasartori@gmail.com – 021 081 66123

## Translation of a Programme of Study and Weekly Course Load from Spanish

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*Universidad Nacional de Tucumán*  
 [National University of Tucumán]

[Logo of Faculty of Exact Sciences and Technology – National University of Tucumán]

Mechanics Department

### Programme of Study and Weekly Course Load

Programme of Study 2004 – Modified 2013

Year 1					
MODULE 1			MODULE 2		
#	Courses	HOURS	#	Courses	HOURS
01	Calculus I	6	05	Calculus II	5
02	Algebra and Analytic Geometry I	6	06	Elements of Linear Algebra	5
03	Systems of Representation	5	07	Physics II	6
04	Physics I	6	08	Informatics	4
			09	Fundamentals of General Chemistry	5
	TOTAL	23		TOTAL	25

Year 2					
MODULE 3			MODULE 4		
#	Courses	HOURS	#	Courses	HOURS
10	Physics III	8	14	Calculus IV	6
11	Calculus III	6	15	Probability and Statistics	5
12	Technical Mechanics I	5	16	Stability I	6
13	Machine Drawing	8	17	Technical Mechanics II	6
	TOTAL	27		TOTAL	25

Year 3					
MODULE 5			MODULE 6		
#	Courses	HOURS	#	Courses	HOURS
18	Computer-aided Design	6	23	Knowledge of Materials	7
19	Stability II	6	24	Thermodynamics	8
20	Fluid Mechanics	5	25	Industrial Electronics	4
21	General Electrotechnics and Laboratory	6			
22	Materials Testing	4			
	TOTAL	27		TOTAL	19

C.M. Gordon, JP  
 #7032  
 AUCKLAND  
 Vice of the Registrar New Zealand

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Signed *C.M. Gordon*  
 Date *13/9/2017*

Avda. Independencia 1800 – CP 4000 – Tucumán (Rep. Argentina) - +54 381 436-4093 – Fax +54 381 436-4157 – Mec 410 7577

**Translator's Note:** This is a true and faithful translation into English of the original document written in Spanish, which I have had before me. Copy of the original is attached. By law the New Zealand Qualifications Authority determines the value of international qualifications in New Zealand. This translation should not be seen as an assessment or validation of any qualifications.

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Mechanics Department

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Signed

Date

*C.M. Gordon*  
 13/7/2017

Year 4					
MODULE 7			MODULE 8		
#	Courses	HOURS	#	Courses	HOURS
26	Machine Elements and Projects	8	31	Hydraulics and Pneumatics	4
27	Electrical Machines	5	32	Heating, Ventilation and Air Conditioning Technology	5
28	Mechanical and Manufacturing Technology	7	33	Hydraulic Machines	6
29	Steam Turbines	6	34	Electrical Installations	5
30	Thermodynamic Measurements	4	35	Stability III	4
TOTAL		30	TOTAL		24

Year 5					
MODULE 9			MODULE 10		
#	Courses	HOURS	#	Courses	HOURS
36	Control Systems	5	41	Steam Generators and Thermodynamic Installations	8
37	Vibration and Machine Foundation	4	42	Internal Combustion Engines	8
38	Elevation and Transport Machines	6	43	Machine and Thermodynamic Installation Testing	4
39	Industrial Organisation	4	44	Industrial Economics	4
40	Legal Engineering	4	45	Hygiene, Industrial Security and Environmental Control	4
TOTAL		23	TOTAL		28

Additional requirements: to be awarded the degree of Mechanical Engineer, the student must pass the following:

Workshop Practice I: 100 hours

Workshop Practice II: 100 hours

Internal Combustion Engine Workshop: 100 hours

Supervised Professional Practice: 200 hs

Final Project: 250 hours

Competency Exam in English: 40 hours, this test must be passed at any time between module 2 and before the start of module 7.



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