

Overview of the educational initiative:

The Tec bachelor programme has been intensively compared to UT possibilities for more than one year in every detail. Tec has its own M-NT programme, but this particular joint educational initiative will allow Tec students to enhance skills by specific modules Tec cannot offer their students today in order to obtain a M-NT degree. A Tec bachelor programme consists of 9 semesters. A UT master programme of 4 semesters.

Only on condition Tec students follow this particular programme and exactly these UT modules in Tec semester 7 and 8, Tec students may be admitted directly to the second year of UT's M-NT programme, including UT's English language requirements for admission.

1	2	3	4	5	6	7	8	9	10	11
TEC 18 CREDITS	TEC 18 CREDITS	TEC 18 CREDITS	TEC 18 CREDITS	TEC 18 CREDITS	TEC 18 CREDITS	TWENTE 30 CREDITS	TWENTE 30 CREDITS	TEC 12-TEC CREDITS + TWENTE* online COIL course	TWENTE 20 CREDITS	TWENTE 40 CREDITS

The joint educational initiative consists of the following curricular elements:

		TWENTE		TECNOLÓGICO DE MONTERREY		
		M.Sc.nanotechnology		B.S. in Nanotechnology Engineering		
<b>Semester 7 (Sept-Jan-2022) at Twente</b>						
Quartile	CODE	COURSE	CREDITS	CODE	COURSE	CREDITS
1 Sep.– Nov.	1934000 50 Or 193530010	Nanoscience or Nanophysics	(5 EC)	OP3091	Optativa Profesional I	3
		Core elective	(5 EC)	OP3092	Optativa Profesional II	3
		Research assignment 1	(5 EC)	OP3093	Optativa Profesional III	3
2 Nov.-Jan.	191210730	Technology Nanofabrication (UTwente) semiconductor-related	(5EC)	OP3094	Optativa Profesional IV	3
		Research assignment 2	(5 EC)	OP3095	Optativa Profesional V	3
		Core elective	(5 EC)	OP3096	Optativa Profesional VI	3
		TOTAL	30 EC		TOTAL	18
<b>Semester 8 (Feb-July-2023) at Twente</b>						
	CODE	COURSE	CREDITS	CODE	COURSE	CREDITS
3 Feb.–Apr.	2016000 44	Nanotechnology Design project	(10 EC)	OP3001B	Elective Multidisciplinary Professional	6
		Core elective	(5 EC)			
4 Apr.-Jul.	t.b.d.	Internship UT	(15 EC)			
		TOTAL	30 EC		TOTAL	6

Core electives:

Quartile 1:

- Nanomaterials Research (5 EC, 201900042)
- Nano-optics (5 EC, 193400131)
- (Bio)molecular Chemistry & Technology (5 EC, 193700020)
- Advanced Colloids & Interfaces (5 EC, 201800083)
- Design validation of Nano-engineered devices (5 EC), new course, code not yet received, requires prior knowledge from either lab on a chip or MEMS Design)

Quartile 2:

- Nano-electronics (5 EC, 193400141)
- Nanomedicine (5 EC, 201200220) will be renamed to: Advanced Drug Delivery and Nanomedicine
- Lab on a Chip (5 EC, 201600046)
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Quartile 3:

- AMM Inorganic Materials Science (5 EC, 193700040)
- Bionanotechnology (5 EC, 193400111)
- Nanofluidics (5 EC, 193400121)
- Micro Electro Mechanical Systems (MEMS) Design (5 EC, 191211300)

	TWENTE			TECNOLÓGICO DE MONTERREY		
	M.Sc. Nanotechnology			B.S. in Nanotechnology Engineering		
<b>Semester 9</b>						
Quartile	CODE	COURSE	CREDITS	CODE	COURSE	CREDITS
5, 6 Sep. – Nov.	n/a	Q3001B	n/a	Q3001B	Development of Integrating Projects in Nanotechnology	12
Nov.- Jan.	t.b.d.	COIL – NANOSUSTAINABILITY	5 EC			
		TOTAL			TOTAL	12
<b>Semester 10 and 11 at Twente</b>						
	CODE	COURSE	CREDITS	CODE	COURSE	CREDITS
7, 8 Feb.– Apr.		Internship & Job Orientation Project	(20 EC)			
Apr.- Jul.		Final master's project	(40 EC)			
9, 10 Sep. –Nov.		Final master's project				
Nov.-Jan.		Final master's project				
		TOTAL	60 EC			