

Double Programme Applied Mathematics and Technical Computer Science 2018 -2019

First academic year (81 EC)

Quartile 1 (21 EC)	<i>Applied Mathematics components</i>		<i>Technical computer Science components</i>	
	<i>Linear Structures I</i>	6 EC	<i>Pearls of Computer Science</i>	11 EC
	<i>Introduction to Mathematics + Calculus 1A</i>	4 EC		
Quartile 2 (20 EC)	<i>Applied Mathematics components</i>		<i>Technical computer Science components</i>	
	<i>Calculus 1B</i>	3 EC	<i>Programming Theory & Project</i>	8 EC
	<i>Analysis</i>	3 EC		
	<i>Linear structures II</i>	3 EC		
	<i>Prooflab</i>	3 EC		
Quartile 3 (18 EC)	<i>Applied Mathematics components</i>		<i>Technical computer Science components</i>	
	<i>Vector Calculus EE + AT</i>	3 EC	<i>Network Systems</i>	12 EC
	<i>Presentation skills</i>	3 EC		
Quartile 4 (22 EC)	<i>Applied Mathematics components</i>		<i>Technical computer Science components</i>	
	<i>Probability Theory</i>	5 EC	<i>Data & Information</i>	12 EC
	<i>Signals & Transformers</i>	5 EC		

Second academic year (81,5 EC)

Quartile 5 (21 EC)	<i>Applied Mathematics components</i>		<i>Technical computer Science components</i>	
	<i>Statistics</i>	6 EC	<i>Computer Systems</i>	15 EC
Quartile 6 (20 EC)	<i>Applied Mathematics components</i>		<i>Technical computer Science components</i>	
	<i>Differential Equations</i>	4 EC	<i>Intelligent Interaction Design</i>	12 EC
	<i>Systems Theory</i>	4 EC		

Quartile 7 (16 EC)	Applied Mathematics components		Technical computer Science components	
	<i>Introduction Mathematical Modelling</i>	1 EC	<i>Discrete Structures & Efficient Algorithms</i>	15 EC
Quartile 8 (20 EC)	Applied Mathematics components		Technical computer Science components	
	<i>Modelling & Analysis of Stochastic Processes</i>	15 EC		
	<i>Project Signals & Uncertainty</i>	5 EC		

Third academic year (67 EC)

Quartile 9 (12 EC)	Applied Mathematics components		Technical computer Science components	
	<i>Analysis II</i>	5 EC		
	<i>Project Statistics (from Module 5)</i>	2 EC		
	<i>Reflection I</i>	5 EC		

Quartile 10 (15 EC)	Minor Profile			
	http://www.utwente.nl/en/education/electives/minor			

Quartile 11 (20 EC)	Applied Mathematics components		Technical computer Science components	
	<i>5 EC of AM Electives:</i>		<i>Design Project</i>	15 EC
	<i>Graph Theory</i>	5 EC		
	<i>Introduction to PDE</i>	5 EC		
	<i>Random Signals & Filtering</i>	5 EC		
	<i>Mathematical Optimization</i>	5 EC		

Quartile 12 (20 EC)	Applied Mathematics components		Technical computer Science components	
	<i>Bachelor Assignment</i>	10 EC	<i>Extension TCS Bachelor Assignment</i>	5 EC
	<i>Complex Function Theory</i>	3 EC		
	<i>Reflection II</i>	2 EC		