



Applied Mathematics / *Toegepaste Wiskunde* 20710-214  
 APPLIED MATRIX METHODS / *TOEGEPASTE MATRIKSMETODES* (2022)

**SCHEDULE/ SKEDULE**

This table is being modified as the module progresses. / Hierdie tabel word opgedateer soos wat die module vorder.

Those cells colored white are future days and the description is "**What is planned for that class.**"  
 Selle wat wit ingekleur is, is toekomstige dae en die inhoud daarvan is "**Wat beplan word vir daardie klas.**"

Those cells colored light purple are past days and the entry is "**What has been done in that class.**"  
 Selle wat ligpers ingekleur is, is dae wat verby is en die inhoud daarvan is "**Wat in daardie klas gedoen is.**"

Lecture no Lesing no	Date Datum	Day Dag	Chapter, Section	Contents / Inhoud
1	15-Feb	Tue		COLOR: Human color perception
2	16-Feb	Wed		COLOR: The color models
3	22-Feb	Tue		POINT TF: Point transformations, gamma, designed transformations
4	23-Feb	Wed		POINT TF: Histogram equalisation
5	1-Mar	Tue		POINT TF: Spatial filtering, Convolution, masks, unsharp masking
6	2-Mar	Wed		POINT TF: Sharpening masks, Order statistics filtering (Assignment 1 due: Th 3 Mar)
7	8-Mar	Tue		FOURIER ANALYSIS: Least squares approximation, orthogonal functions
8	9-Mar	Wed		FOURIER ANALYSIS: Parity, Periodicity, Fourier Series
9	15-Mar	Tue		FOURIER ANALYSIS: The Continuous Fourier Transform, The convolution Theorem
10	16-Mar	Wed		FOURIER ANALYSIS: The Discrete Fourier Transform
	21-Mar	Mon		HUMAN RIGHTS DAY
11	22-Mar	Tue		FOURIER ANALYSIS: 2D Transforms, continuous and discrete
12	23-Mar	Wed		FREQUENCY FILTERING:
				RECESS: 26 March to 3 April
13	5-Apr	Tue		FREQUENCY FILTERING:
14	6-Apr	Wed		FREQUENCY FILTERING: (Assignment 2 due: Th 7 Apr)
15	12-Apr	Tue		FREQUENCY FILTERING:
16	13-Apr	Wed		FREQUENCY FILTERING:
	15-Apr	Fri		GOOD FRIDAY
	18-Apr	Mon		PUBLIC HOLIDAY
	19-Apr	Tue		[MONDAY TIMETABLE ON TUESDAY] NO LECTURE
17	20-Apr	Wed		RESTORATION:
18	26-Apr	Tue		RESTORATION: (Assignment 3 due: Th 28 Apr)
	27-Apr	Wed		FREEDOM DAY
19	3-May	Tue		RESTORATION:
	4-May	Wed		(Assignment 2 due: Tu 22 Mar)
20	10-May	Tue		RESTORATION:
21	11-May	Wed		MORPHOLOGICAL FILTERING:
22	17-May	Tue		MORPHOLOGICAL FILTERING:

23	18-May	Wed		SEGMENTATION: (Assignment 4 due: Th 19 May)
	24-May	Tue		
	25-May	Wed		
	31-May	Tue		
	1-Jun	Wed		(Assignment 5 due: Th 2 Jun)
	7-Jun	Tue		
	8-Jun	Wed		(Assignment 6 due: Th 9 Jun)
	14-Jun	Tue		
	15-Jun	Wed		