

Schedule for Image and System Analysis (FK7064) 10.5 hp, HT 2026

Activities in *Green* are mandatory to attend

Week	Day	Date	Time	Teaching Activity	Teacher	Room	Literature*
40	Monday	09-28	10:00-12:00	Introduction to image analysis Introduction to clinical practice	<i>ML</i> <i>EKL</i>	MSF library	Lecture notes
	Tuesday	09-29	--	Introduction to signal and system analysis Introduction to programming	<i>MA</i>	Recorded lecture	Lecture notes
	Wednesday	09-30	13:00-15:00	Statistics 1	<i>C-BL</i>	MSF library	Lecture notes
	Thursday	10-01	13:00-15:00	Statistics 2	<i>C-BL</i>	MSF library	Lecture notes
	Friday	10-02	09:00-15:00	Signal representation and domain transformation techniques & Quiz 1	<i>MA</i>	MSF library	Lecture notes
41	Monday	10-05	09:00-12:00	Image fundamentals	<i>MA</i>	MSF library	1,2
	Tuesday	10-06	09:00-12:00	Spatial domain techniques	<i>MA</i>	MSF library	3
	Wednesday	10-07	10:00-12:00	Calculation exercises 1	<i>MA</i>	MSF library	--
	Thursday	10-08	09:00-12:00	Frequency domain techniques	<i>MA</i>	MSF library	4
	Friday	10-09	09:00-15:00	Laboratory exercise 1 & Quiz 2	<i>MA</i>	Computer lab	--
42	Monday	10-12	09:00-12:00	Color image processing, human vision	<i>MA</i>	MSF library	2, 6
	Tuesday	10-13	09:00-12:00	Image compression	<i>MA</i>	MSF library	8
	Wednesday	10-14	10:00-12:00	Calculation exercises 2	<i>MA</i>	MSF library	--
	Thursday	10-15	09:00-12:00	Image restoration and tomography	<i>MA</i>	MSF library	5
	Friday	10-16	09:00-15:00	Laboratory exercise 2 & Quiz 3	<i>MA</i>	Computer lab	--
43	Monday	10-19	09:00-12:00	Morphological image processing	<i>MA</i>	MSF library	Lecture notes
	Tuesday	10-20	09:00-12:00	Image segmentation 1	<i>MA</i>	MSF library	Lecture notes
	Wednesday	10-21	09:00-12:00	Image segmentation 2	<i>MA</i>	MSF library	Lecture notes
	Thursday	10-22	--	Self-study	<i>MA</i>	--	--
	Friday	10-23	10:00-12:00	Calculation exercises 3	<i>MA</i>	MSF library	--
44	Monday	10-26	09:00-12:00	Medical images, formats, coordinates	<i>MA</i>	MSF library	Lecture notes
	Tuesday	10-27	09:00-12:00	Medical image registration	<i>MA</i>	MSF library	Lecture notes
	Wednesday	10-28	10:00-12:00	Medical image visualization, applications	<i>MA</i>	MSF library	Lecture notes
	Thursday	10-29	09:00-12:00	Evaluation metrics and ROC analysis	<i>MA</i>	MSF library	Lecture notes
	Friday	10-30	09:00-15:00	Laboratory exercise 3 & Quiz 4	<i>MA</i>	Computer lab	--
45	Monday	11-02	10:00-12:00	Calculation exercises 4	<i>MA</i>	MSF library	--
	Tuesday	11-03		Self-study			
	Wednesday	11-04		Self-study			
	Thursday	11-05		Self-study			
	Friday	11-06	09:00-15:00	EXAM	--	TBA	--

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Literature: Gonzalez & Woods: Digital image processing - Fourth Edition

Chapter number in *Literature

ML: Marta Lazzeroni, Associate Professor, Stockholm University

EKL: Emely Kjelsson Lindblom, Associate Professor, Stockholm University

C-BL: Chun-Biu Li, Associate Professor, Stockholm University

MA: Mehdi Astaraki, Associate Professor, Stockholm University