W	Monday – on campus	To do at home before Wed	Wednesday – on campus	To do at home before next Mon 20	024
2	Introduction	Si material properties		Metal-semiconductor junctions	
	 Introduction lecture at 12:15 – 14 Course practicalities Introduction to the course topics 	 Watch the following lecture videos: Semiconductor physics (recap of pre-requisite) Si material properties 	 Guest lecture at 12:15 – 13 - Iiro Lehto from Okmetic Inc. - Si ingot and wafering 	 Watch the following lecture video: Metal-Semiconductor junctions Start preparing the exercise set 1 (Ex1) and quizzes 1-2 	
3	Si material properties and metal-ser	niconductor junctions		Silicon solar cells	
	Exercise session 1 at 12:15 – 14 - Help available by TAs	 Submit lecture Quiz 1 & Quiz 2 (DL Wed at noon) Finalise the exercise set 1 (DL Tue midnight 23:55) 	 Recap of lectures and quizzes at 12:15 – 13 Prepare to present the correct answers for Ex1 at 13:15 	 Watch the following lecture videos: Silicon solar cells I & II Start preparing the exercise set 2 (Ex2) and quizzes 3-4 	
4	Silicon solar cells			Device fabrication and detectors	
	Exercise session 2 at 12:15 – 14 - Help available by TAs	 Submit lecture Quiz 3 & Quiz 4 (DL Wed at noon) Finalise the exercise set 2 (DL Tue midnight 23:55) 	 Recap of lectures and quizzes at 12:15 – 13 Prepare to present the correct answers for Ex2 at 13:15 	 Watch the following lecture videos: Semiconductor device fabrication Semiconductor detectors Start preparing the exercise set 3 (Ex3) and quizzes 5-6 	
5	Device fabrication and detectors			MOS and MOSFETs	
	Exercise session 3 at 12:15 – 14 - Help available by TAs	 Submit lecture Quiz 5 & Quiz 6 (DL Wed at noon) Finalise the exercise set 3 (DL Tue midnight 23:55) 	 Guest Lecture at 12:15 Evgeny Shelegeda from Ametek Inc. X-ray detectors (Si-PIN and Fast SDD) Recap of lectures and quizzes Prepare to present the correct answers for Ex3 	 Watch the following lecture videos: MOS capacitors MOSFET I & II Start preparing the exercise set 4 (Ex4) and quizzes 7-9 	
6	MOS and MOSFETs			Summary	
	Exercise session 4 at 12:15 – 14 - Help available by TAs	 Submit lecture Quiz 7-9 (DL Wed at noon) Finalise the exercise set 4 (DL Tue midnight 23:55) 	 Recap of lectures and quizzes at 12:15 – 13 Prepare to present the correct answers for Ex4 at 13:15 	 Recap the course material and prepare yourself for the summary exercise and oral discussion 	
7	Summary				
	Group exercise 12:15 – 15 - Summary	 Recap the course material and prepare yourself for the oral discussion 	 Pair discussion exercise (15 min) Time slots available between 8-17 (possibly on Friday too) 		
Mon	Mondays: Short theory / help available by TAs related to the weekly exercises Wednesdays: Quiz asswers (discussion by teachers followed by dome exercises by the students				

Wednesdays: Quiz answers/discussion by teachers followed by demo exercises by the students