

Automation in Complex Systems EIEN35

2022-03-17

Time table: March - June 2022 (study term 4)

The lectures are held in room M:IEA; NOTE! No fixed week-schedule! Follow TimeEdit!

W	Day	Time	Lecture	Lecturer	Literature	Project & Exercises
12	Mon March 21	8-10	Introduction + administration	GL		
	Tue					
	Wed	13-15	Introduction project exercise / Dynamic systems / Simulators	RS, UJ	Project Description/ Chapter 8, Shampine-Gear	Start Lab Project
	Thu					
	Fri	8-10	Dynamic systems / Simulators	UJ		
13	Mon March 28	10-12	Queuing theory	UJ	Chapter 6.6, 7	
	Tue					
	Wed	15-17	Queuing theory	UJ		
	Thu					
	Fri	8-10	<i>Exercise seminar</i>	UJ		
14	Mon April 4	10-12	Process monitoring / Operator support (PR)	C. Rosen	Chapters 9, 11 – 12, Wise-Gallagher, Kramer-Fjellheim	
	Tue					
	Wed					
	Thu	10-12	Plant-wide control	C. Rosen	Skogestad	
	Fri					Deadline simulation exercise 1
<i>Easter holiday</i>						
17	Mon April 25	10-12	<i>Exercise seminar</i>	UJ/GL		
	Tue					
	Wed	13-15	ISA88, ISA95 and Industry 4.0	Charlotta Johnsson		Not confirmed. Might be rescheduled/recorded
	Thu					
	Fri		<i>Valborg</i>			
18	Mon May 2	10-12	Data bases	GL	Chapter 17	
	Tue					
	Wed	13-15	Next wave of digitalization, its tools and challenges.	Tobias Antius Ulf Yngvesson	Novotek	Deadline simulation exercise 2
	Thu					
	Fri	8-10	HMI	GL	Chapter 9	
19	Mon May 9	8-10	Visit at Tetra Pak	GL		
	Tue					
	Wed	8-10, 13-15	Complexity	G. Olsson		Two lectures: 8-10, 13-15
	Thu					
	Fri	8-10, 13-15	-Communication -Structural complexity in industrial automation	T. Gillblad		Two lectures: 8-10, 13-15
20	Mon May 16	8-10	Simulation exercise discussions	UJ		
	Tue					
	Wed	13-17	Lab project	RS/GL/UJ		Presentation of the Lab project
	Thu					
	Fri		<i>Lundakarnevalen</i>			
21	Mon May 23	10-12	Course repetition	UJ/GL		
22	Wed June 1	14-19	Exam			Sparta: C

Teaching staff: Dr Gunnar Lindstedt (GL), Dr Ulf Jeppsson (UJ) and Dr Ramesh Saagi (RS)

Guest lecturers: Prof.emer. Gustaf Olsson, Dr Christian Rosén, Tech.Lic. Thomas Gillblad, Prof Charlotta Johnsson, MSc Tobias Antius.