

	Date	Time	Place	Lecture/Exer	Lecturer		Project work
Tue	1.3.2021	8:15 - 9:45	Ke4	L	Jukka Kortela	Structure of an automation system, Introduction to ABB 800xA	
Wed	2.3.2021	12:15 - 13:45	L181	E	Jukka Kortela	Identifying of the components of the ABB 800xA automation system	
Fri	4.3.2021	12:15 - 13:45	L181	E	Jukka Kortela	Identifying of the components of the ABB 800xA automation system	
Tue	8.3.2021	8:15 - 9:45	Ke4	L	Jukka Kortela	Network topology of and automation system, Basics of the Ethernet, IP & TCP/UDP	Project work is given
Wed	9.3.2021	12:15 - 13:45	L181	E	Jukka Kortela	Connecting the PLCs and the measurements	
Fri	11.3.2021	12:15 - 13:45	L181	E	Jukka Kortela	Connecting the PLCs and the measurements	
Tue	15.3.2021	8:15 - 9:45	B202b	L	Jukka Kortela	Programmable Logic Controller, PLC Programming basics	
Wed	16.3.2021	12:15 - 13:45	L181	E	Jukka Kortela	PLC programming, Lamps On-Off	
Fri	18.3.2021	12:15 - 13:45	L181	E	Jukka Kortela	PLC programming, Lamps On-Off	
Tue	22.3.2021	8:15 - 9:45	B202b	L	Jukka Kortela	Function Block Diagram (FBD) programming	Deadline: Configuring the networks and measurements
Wed	23.3.2021	12:15 - 13:45	L181	E	Jukka Kortela	Function Block Diagram (FBD) programming, Tuning of the controllers	
Fri	25.3.2021	12:15 - 13:45	L181	E	Jukka Kortela	Function Block Diagram (FBD) programming, Tuning of the controllers	
Tue	29.3.2021	8:15 - 9:45	B202b	L	Jukka Kortela	User Interface design in ABB 800xA system	Deadline: PI and PLC programming
Wed	30.3.2021	12:15 - 13:45	L181	E	Jukka Kortela	User Interface design for the Mixing tank	
Fri	1.4.2021	12:15 - 13:45	L181	E	Jukka Kortela	User Interface design for the Mixing tank	
Tue	5.4.2021	8:15 - 9:45	B202b	L	Jukka Kortela	Historical data collection, OPC UA	Deadline: User Interface Design
Wed	6.4.2021	12:15 - 13:45	L181	E	Jukka Kortela	Configuring historical data collection, trend displays	
Fri	8.4.2021	12:15 - 13:45	L181	E	Jukka Kortela	Configuring historical data collection, trend displays	