

Timetable								
Week	Date	Lecture time	Topic	Lecturer	Calculation exercise time	Topic	Course Assistant	Other notes
2	12.1.2024	12:00-14:00	Introduction, basics, generator, transformer	Janne Seppänen	14:00-16:00	0 and 1: Basics + Generator, transformer	Exercise session: Amin Moghimi Fam, Home exercises: Tomi Perttula	
3	19.1.2024	12:00-14:00	Power flow	Janne Seppänen	14:00-16:00	0 and 1: Basics + Generator, transformer	Exercise session: Amin Moghimi Fam, Home exercises: Tomi Perttula	21.1.2023 OI, for home calculations: (Basics), generator, transformer
4	26.1.2024	12:00-14:00	Transmission lines	Janne Seppänen	14:00-16:00	2: Power flow	Exercise session: Amin Moghimi Fam, Home exercises: Tomi Perttula	26.1.2023 OI, for home calculations: Power flow
5	2.2.2024	12:00-14:00	Faults in the transmission system	Janne Seppänen	14:00-16:00	2: Transmission lines	Exercise session: Amin Moghimi Fam, Home exercises: Tomi Perttula	4.2.2023 OI, for home calculations: Transmission lines
6	9.2.2024	12:00-14:00	Guest lecture: Protection in transmission system	Mikko Holmgren, Fingrid	14:00-16:00	4: Faults in the transmission system	Exercise session: Amin Moghimi Fam, Home exercises: Tomi Perttula	11.2.2023 OI, for home calculations: Faults in the transmission system
7	16.2.2024	12:00-14:00	Voltage stability and voltage control	Janne Seppänen	14:00-16:00	5: Voltage stability and voltage control	Exercise session: Amin Moghimi Fam, Home exercises: Tomi Perttula	18.2.2023 OI, for lecture diary 1
8	Exam week		No lecture, exam week					
9	1.3.2024	12:00-14:00	Angle stability	Janne Seppänen	14:00-16:00	6: Angle stability	Exercise session: Amin Moghimi Fam, Home exercises: Tomi Perttula	3.4.2023 OI, for home calculations: Voltage stability and voltage control
10	8.3.2024	12:00-14:00	Guest lecture: HVDC & FACTS	Kimmo Nopola, Fingrid	14:00-16:00			10.3.2023 OI, for home calculations: Angle stability 1
11	15.3.2024	12:00-14:00	Guest lecture: Power generation grid integration and flexibility solutions in power systems	Antti Kuusela, Fingrid	14:00-16:00	-		17.3.2023 OI, for lecture diary 2
12	22.3.2024	12:00-14:00	Guest lecture: Frequency control, reserves and balancing power	Mikko Kuusjärvi, Fingrid	14:00-16:00	-		24.3.2023 OI, for lecture diary 3
14	5.4.2024	12:00-14:00	Angle stability 2, frequency stability	Janne Seppänen	14:00-16:00	7: Angle stability 2, frequency stability	Exercise session: Amin Moghimi Fam, Home exercises: Tomi Perttula	7.4.2023 OI, for lecture diary 4
15	12.4.2024	12:00-14:00	Transfer capacity, grid planning, blackouts, summary	Janne Seppänen	14:00-16:00			14.4.2023 OI, for home calculations: Angle stability 2, frequency stability
16	Exam week	-	No lecture, course exam		14:00-16:00			