

# Timetable

## Student Group

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## Table of Contents

<b>Timetable</b> .....	<b>2</b>
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# Timetable

Semester week	Chapter	Topics	Exercises
1	1	Overview over all chapters 1.1 Electric Field and Field Lines 1.2 Electric charge and Coulomb force (reloaded)	Task 1.1.5, 1.2.1, 1.1.3
2	1	1.3 Work and Potential 1.4 Conductors in the Electrostatic Field 1.5 The Electric Displacement Field and Gauss's law of electrostatics 1.6 Non-Conductors in electrostatic Field	Task 1.4.5, 1.4.3, 1.4.1 "capacitor lab" in wikipage <a href="#">Falstad Capacitor Simu</a>
3	1 + 2	1.7 Capacitors 1.8 Circuits with Capacitors 1.9 Configurations of multiple Dielectrics 2.1 Current Strength and Flux Field	Task 1.5.1, 1.5.2, 1.5.3 "capacitor lab" in wikipage (Series Capacitor, Dielectrics) Task 2.1.2 <a href="#">simu Wire with current</a> --> what happens, when there is a bottleneck?
4	2+3	2.2 Gauss's Law for Current Density 3.1 Magnetic Phenomena 3.2 Magnetic Field Strength (until Magnetic Voltage)	Task 2.1.3, 2.2.2 Task 3.2.1, Aufg. 1.2-12, 1.2-13 (Übungsaufg. ILIAS) Task 3.2.2, 3.2.3
5	3	3.3 Magnetic Flux Density and Lorentz Law	Exam task 11 (Klausur WS19 ILIAS) Task 3.3.2
6	3 + 4	3.4 Matter in the Magnetic Field 4.1 Recap of magnetic Field 4.2 Lenz Law	Task 4.1.1, 4.1.2, "Electromagnetic Lab" in wikipage
7	4 + 5	4.3 Motional Induction 4.4 Self-Induction 4.5 Inductance 5.1 Linear magnetic Circuits	Task 4.3.1, 4.3.2, 4.3.3 <a href="#">simulation of inductive kickback</a> Task 4.1.4, 4.1.5, 4.1.6 look into Exam SS21 (Aufg. 6, 7, 8)
8	5	5.2 (not included) 5.3 Mutual Induction and Coupling 5.4 Magnetic Energy	Task 5.3.1, 5.1.1, 5.1.2, 5.1.9,
9	5 + 6	6.1 Basic Circuits (with Inductances) 6.2 Charging and Discharging 6.3 Resonance Phenomena	Task 5.1.3, 5.1.4, 5.1.5, 5.1.6, 5.1.7 Example Crystal Oscillator (simu in wikipage)
10	6 + 7	6.4 Applications of Inductors 6.5 Examples 7.1 Power in AC	Look into capacitor datasheet -> Impedance over frq Task 6.3.1
11	7	7.1 Power in AC	Task 7.1.1
12	7	7.2 Polyphase Networks	
13	7	7.2 Polyphase Networks	
14	-	exam preparation	Task 1.9.2

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