|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Semester 2, 2022/23**  **Course Schedule**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | Week | Session | Topic | Reference | Notes | | **1** | Session 1 | 1.1: Coulomb's Law  1.2: Electric Field | Coulomb’s Law:  <https://www.youtube.com/watch?v=2GQTfpDE9DQ>  <https://www.youtube.com/watch?v=4ubqby1Id4g>  <https://www.youtube.com/watch?v=ZUsJYC7WKyA>  Electric Field:  <https://www.youtube.com/watch?v=V9RLc9EX1so>  <https://www.youtube.com/watch?v=VFbyDCG_j18>  <https://www.youtube.com/watch?v=c2W0ufo9PEM>  <https://www.youtube.com/watch?v=DqnM3KbMydM> |  | | Session 2 | 1.3: Electric Potential | <https://www.youtube.com/watch?v=y8vGuA6k6so>  <https://www.youtube.com/watch?v=buXwJwVGq74>  <https://www.youtube.com/watch?v=EUamX5cxPD0>  <https://www.youtube.com/watch?v=yP4odBos3c0> |  | | Session 3 | 1.4: Charge in a Uniform Electric Field | <https://www.youtube.com/watch?v=y-3Ow_-JpbI>  <https://www.youtube.com/watch?v=J3b7pjp4f9c>  <https://www.youtube.com/watch?v=XJNVKweNAZ0>  <https://www.youtube.com/watch?v=1hzF2kfRzGs> |  | | Session 4 | Chapter 1: Summary |  |  | | Labs |  |  |  | | **2** | Session 1 | 2.1: Capacitance and Capacitors in Series and Parallel | <https://www.youtube.com/watch?v=BIPi0vXdssE>  <https://www.youtube.com/watch?v=z-Mrzw_QVNE>  <https://www.youtube.com/watch?v=PPhSmZ6w9WY>  <https://www.youtube.com/watch?v=a-gPuw6JsxQ> |  | | Session 2 | 2.2: Charging and Discharging Capacitors | <https://www.youtube.com/watch?v=iQZknlJjaj4>  <https://www.youtube.com/watch?v=b_S-Ni5n-2s>  <https://www.youtube.com/watch?v=PLQrPqYlPmI> |  | | Session 3 | 2.3: Capacitors with Dielectrics | <https://www.youtube.com/watch?v=rkntp3_cZl4>  <https://www.youtube.com/watch?v=HmZ4iK1T1bg>  <https://www.youtube.com/watch?v=tymPX_IYnsU> |  | | Session 4 | Chapter 2: Summary |  |  | | Labs |  |  |  | | **3** | Tutorial 1 |  |  |  | | Tutorial 2 |  |  |  | | Tutorial 3 |  |  |  | | Lecture |  |  |  | | Labs |  |  |  | | **4** | Tutorial 1 |  |  |  | | Tutorial 2 |  |  |  | | Tutorial 3 |  |  |  | | Lecture |  |  |  | | Labs |  |  |  | | **5** | Tutorial 1 |  |  |  | | Tutorial 2 |  |  |  | | Tutorial 3 |  |  |  | | Lecture |  |  |  | | Labs |  |  |  | | **6** | Tutorial 1 |  |  |  | | Tutorial 2 |  |  |  | | Tutorial 3 |  |  |  | | Lecture |  |  |  | | Labs |  |  |  | | **7** | Tutorial 1 |  |  |  | | Tutorial 2 |  |  |  | | Tutorial 3 |  |  |  | | Lecture |  |  |  | | Labs |  |  |  | | **8** | Tutorial 1 |  |  |  | | Tutorial 2 |  |  |  | | Tutorial 3 |  |  |  | | Lecture |  |  |  | | Labs |  |  |  | | **9** | Tutorial 1 |  |  |  | | Tutorial 2 |  |  |  | | Tutorial 3 |  |  |  | | Lecture |  |  |  | | Labs |  |  |  | | **10** | Tutorial 1 |  |  |  | | Tutorial 2 |  |  |  | | Tutorial 3 |  |  |  | | Lecture |  |  |  | | Labs |  |  |  | | **11** | Tutorial 1 |  |  |  | | Tutorial 2 |  |  |  | | Tutorial 3 |  |  |  | | Lecture |  |  |  | | Labs |  |  |  | | **12** | Tutorial 1 |  |  |  | | Tutorial 2 |  |  |  | | Tutorial 3 |  |  |  | | Lecture |  |  |  | | Labs |  |  |  | | **13** | Tutorial 1 |  |  |  | | Tutorial 2 |  |  |  | | Tutorial 3 |  |  |  | | Lecture |  |  |  | | Labs |  |  |  | | **14** | Tutorial 1 |  |  |  | | Tutorial 2 |  |  |  | | Tutorial 3 |  |  |  | | Lecture |  |  |  | | Labs |  |  |  | | **15** | Tutorial 1 |  |  |  | | Tutorial 2 |  |  |  | | Tutorial 3 |  |  |  | | Lecture |  |  |  | | Labs |  |  |  | | **16** | Tutorial 1 |  |  |  | | Tutorial 2 |  |  |  | | Tutorial 3 |  |  |  | | Lecture |  |  |  | | Labs |  |  |  | | **17** | Tutorial 1 |  |  |  | | Tutorial 2 |  |  |  | | Tutorial 3 |  |  |  | | Lecture |  |  |  | | Labs |  |  |  | | **18** | Tutorial 1 |  |  |  | | Tutorial 2 |  |  |  | | Tutorial 3 |  |  |  | | Lecture |  |  |  | | Labs |  |  |  | |  |  |  |  |  | |