IB Physics

Electrostatics and Field Theory - Chapter 16 & 17 Syllabus

|  |  |  |  |
| --- | --- | --- | --- |
| **M** | **13**  **Oct**  **5** | **DI**-Conductors/Stupid Van de Graaff tricks  **DI**-Charging  **GW**-Vector Forces (16.1) | **VF 16A, 16B, 16D1, 16D2 (Forces)**  Read Oxford 5.1a: pp. 169 - 175 |
| **T** | **14**  **Oct**  **6** | **GW**- Vector Forces (16.1)  **SA16.1 - Vector Force (Due by Thursday)** | **Turn in:** FA 16.1 - Vector Forces |
| **Th** | **15**  **Oct**  **8** | **GW**-Vector Fields (16.2) | **VF 16E, 16F, 16G1, 16G2 (Fields)**  Read Oxford 5.1b: pp. 175 - 182 |
| **F** | **16**  **Oct**  **9** | **GW**-Vector Fields (16.2)  **SA-16.2 - Vector Fields (Due by Monday)** | **Turn in:** FA16.2 - Vector Fields |
| **M** | **17**  **Oct**  **12** | **GW**-Voltage (17.1) | **VF 16H, 16I, 16K, 16L, 16M (Point voltages)** |
| **T** | **18**  **Oct**  **13** | **GW**-Voltage (17.1) |  |
| **Th** | **19**  **Oct**  **15** | **GW**-Conservation of energy (17.1) | **VF 16J, 16Q** |
| **F** | **20**  **Oct**  **16** | **SA17.1-Voltage (Due by Monday)**  **DI**-RC Circuits | **Turn in:** FA 17.1 - Energy |
| **M** | **21**  **Oct**  **19** | **DI**-CRT Demo  **GW**-RC Lab/IA/IB Questions | **VF 16N, 16O, 16P** |
| **T** | **22**  **Oct**  **20** | **GW**-RC Lab/IA/IB Questions |  |
| **Th** | **23**  **Oct**  **22** | **GW**-RC Lab/IA/IB Questions | **Turn in:** FA 17.2 - CRT |
| **F** | **24**  **Oct**  **23** | **IA “Show and Tell” day** | **Turn in:** IB Field Theory Questions |
| **M** | **25**  **Oct**  **26** | Begin Currents and Circuits | **VF 18A, 18B, 18C, 18D, 18E**  **Turn in:** RC Circuits lab  **Turn in:** Field Theory Mock Test |

Assignments

* 1 Lab:
  + RC Circuits Lab - a capacitor discharging /30 pts
* 2 Formative assignments:
  + IB Field Theory Questions
  + Field Theory Mock Test
* 4 Formative/3 Summative Assessments:
  + 16.1 – Coulomb’s law, electric field, net force
  + 16.2 – Vector electric field
  + 17.1 – Voltage due to point sources, work.
  + 17.2 – CRTs and Capacitors (no summative)