



Final Exams : June 2011

Please place on this sheet the contents of your course that you will be examining in your Final Exam. Details are expected. Chapter numbers, section headings and the like. Please type using this template and then email the template to me using all the syntax details from the PDF filename that I have spelt out in the email that this came attached to.

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| Teacher : Sami Nass | Subject : Physics 9A |
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Chapter 5: **DC Voltage.**

Law of Addition of voltages.
Series, parallel & mixed circuits.

Chapter 6: **AC Voltage.**

Settings of oscilloscope. Horizontal & vertical sensitivities.
Types of signals: Sinusoidal, triangular....

Chapter 7: **Voltage of the mains.**

Colour codes of outlets & appliances.
Protection against electrocution. Fuses, Circuit Breakers...

Chapter 8: **Resistors.**

Grouping in series & in parallel.
Plotting Voltage-Current characteristic.
Voltage across resistors.

Chapter 9: **Energy & Power**

Joule's Effect. Heat Dissipation.
Dissipation of energy in the commercial unit KWh

Chapter 12: **Forces.**

Forces as Vectors.
Addition of Forces.
Types & Characteristics.

Chapter 13: **Equilibrium of Bodies. Hooke's Law**

Compression & Elongation.
Elastic Limit.
Deformation of Elastic Springs.

Chapter 14: **Pressure in Solids, Liquids & Gases.**

Pressure in Solids. Pascal's Theorem.

Pressure in Liquids. U-Tubes.

Pressure in Gases. Torricelli's Barometre.

Chapter 15: **Archimedes Up-thrust.**

Buoyant force of Fluids.

Sinking & Floating Laws.