Experiments of Free Choice

Group	Title	Weights	No. copies	Room	TAs
I **Oscillations, Waves and Optics**	Wave Phenomena	2	3	229, 225	XZ, HD
	Slinky Waves	2	2	230	XZ, HD
	Velocity of Ultrasonic Waves in Water	2	2	221E	JF, RL
	Interference and Diffraction	2	3	221	XZ, HD
	Polarization of Light	2	2	221E	AC, TH
	Interferometers	2-4	3	229,221E	XZ, HD
	Holography write-up; Video	1	2	229,221C	JF, RL
II **Electricity, Magnetism and Electric Circuits**	Q of Oscillators	3	3	229	JF, RL
	Pulses in Cables	2	4	229, 230	JF, RL
	Currents in LCR	3	6	229	CZ, NB
	Hall Effect	2	1	229, 230	XZ, HD
	Two-Terminal Devices	2	3	229	JF, RL
	Current Balance	2	1	230	AC, TH
	DC Power Supply	2	3	229	JF, RL
III **Fundamental Constants, Classic Experiments**	Kater Pendulum (g)	2	1	235	XZ, HD
	Air Gyroscope (g)	2	1	240	XZ, HD
	Charge to mass ratio for electron (e/m)	1	3	240	AC, TH
	Millikan Experiment (e) – digital camera Millikan Experiment (e) – visual method	2	1 1	221D	AC, TH
	Cavendish Experiment (G)	2	2	243	XZ, HD
	Radius of Earth (Gravity of Earth) (g)	2	2	229	AC, TH
IV **Quantum Physics**	Photoelectric Effect	1	2	229,221D	JF, RL
	Zeeman Effect (Technical Info p.1-2; p.3-4)	2	1	240	CZ, NB
	Electron Spin Resonance	2	2	229	CZ, NB
	Blackbody Radiation	2	2	221	CZ, NB
	Spectrometry	1	1	230	CZ, NB
	Electron Diffraction	1	1	221B	CZ, NB
	Frank-Hertz Experiment	1	3	221B	CZ, NB
V **Thermal Phenomena, Fluids**	Motion in Fluids	1	3	229, 225	AC, TH
	Thermal Motion	2	3	234 B	AC, TH
	Thermal Diffusivity	2	2	234 A	XZ, HD
	Thermoelectricity	3	2	229	JF, RL
	Evaporation of a Silver Film	1	1	229, 235	XZ, HD
VI **Particle Physics**	Radioactivity in the Air	2	1	229, 235	CZ, NB

Initials to the left refer to the Lab Demonstrator supervising an experiment in morning sessions 9-12 (LEC01).
Initials to the right refer to the Lab Demonstrator supervising an experiment in afternoon sessions 13-16 (LEC02).

NB – Nishant Bhatt	JF – John Feng	TH – Tailong He	XZ – Xuesong Zhang
AC – Alex Cabaj	HD – Hazem Daoud	RL – Robert Les	CZ – Charles Zhang

Last updated 11.02.2018