

PHYSLAB 300/500

Lab schedule

Note: The colored experiments need to be performed in a group of two people. All others are individual experiments.

Student Name/Date	13-10-2016	18-10-2016	20-10-2016	25-10-2016	27-10-2016	01-11-2016	03-11-2016	08-11-2016
Sheraz Zahid	Chaos and non-linear physics (2.5)		The magnetic pendulum (2.12)		Introduction to lock in amplifier (2.2)	Faraday's effect (2.6)	Reflection, transmission and Fresnel coefficients (3.1)	Energy dispersive X-ray fluorescence (2.14)
Ayesha Imam	Temperature oscillations in a metal (2.3)		Ellipsometry (2.16)	Michelson interferometry (2.9)	Michelson interferometry (2.9)	Investigating polarization of light through Jones calculus (3.3)	Gamma-ray spectroscopy (2.19)	
Junaid Ahmed Khan	Temperature oscillations in a metal (2.3)		Measuring muon lifetime (2.20)				Ellipsometry (2.16)	Michelson interferometry (2.9)
Bilal Ahmed	Chaos and non-linear physics (2.5)		<u>Superconducting quantum interference devices (SQUIDs)</u>					
Hassan Ahmed Khan	Gamma-ray spectroscopy (2.19)							
Hassaan Khan	Band structure and electrical conductivity in semiconductors (2.10)		Febry-Perot Interferometer (3.5)	Energy dispersive XRF (2.14)	<u>Surface Plasmon resonance (2.15)</u>			

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Sehrish Iqbal	Band structure and electrical conductivity in semiconductors (2.10)		Introduction to lock in amplifier (2.2)	Faraday's effect (2.6)	Surface Plasmon resonance (2.15)			
Usman Rasheed	Energy dispersive X-ray fluorescence (2.14)	Investigating polarization of light through Jones calculus (3.3)	Mach-Zehnder interferometry and eraser of 'which-path' information (2.21)		Chaos and non-linear physics (2.5)		The magnetic pendulum (2.12)	
Subhan Jamil	Michelson interferometry (2.9)	Diffraction from single and double slits (3.2)	Energy dispersive X-ray fluorescence (2.14)	Temperature oscillations in a metal (2.3)		Mach-Zehnder interferometry and eraser of 'which-path' information (2.21)		Ellipsometry (2.16)
Arslan Hashim	Projectile motion (5.1)		Spring pendulum (5.4)	Sliding friction (5.2)	Colliding pucks on a carom board (5.3)		Gamma-ray spectroscopy (2.19)	
Musa Raza	Surface Plasmon resonance (2.15)				Reflection, transmission and Fresnel coefficients (3.1)	Ellipsometry (2.16)	Introduction to lock in amplifier (2.2)	Faraday's effect (2.6)
Asif Nawaz					Gamma-ray spectroscopy (2.19)		Band structure and electrical conductivity in semiconductors (2.10)	
Asad Hussain	Tracking Brownian motion through video microscopy (2.11)				Investigating polarization of light through Jones calculus (3.3)	Michelson interferometry (2.9)	Colliding pucks on a carom board (5.3)	
Hamza Ahmed	Introduction to lock in amplifier (2.2)	Faraday's effect (2.6)	Studying phase transitions with strain gauge (2.7)					

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Bilal Khalid	Ellipsometry (2.16)	Michelson interferometry (2.9)	<u>Studying phase transitions with strain guage (2.7)</u>					
Hafiyya Fayyaz	Synthesis of high temperature superconductor using citrate pyrolysis and observing the Meissner effect+ low temperature conductivity (2.17+2.18)				Band structure and electrical conductivity in semiconductors (2.10)		Febry-Perot interferometer (3.5)	Sliding friction (5.2)
Adil Ghaznavi					Synthesis and ferroelectric properties of KNO3 films (2.13)			
Sarosh Sultan	Colliding pucks on a carom board (5.3)		Sliding friction (5.2)	Spring pendulum (5.4)	Projectile motion (5.1)		Michelson interferometry (2.9)	Reflection, transmission and Fresnel coefficients (3.1)
Usman Subhani	Band structure and electrical conductivity in semiconductors (2.10)		Investigating polarization of light through Jones calculus (3.3)	Analyzing the polarization state of light through the Fourier series (3.4)	Spring pendulum (5.4)	Energy dispersive X-ray fluorescence (2.14)	Temperature oscillations in a metal (2.3)	
Waqar Ahmed	Band structure and electrical conductivity in semiconductors (2.10)		Projectile motion (5.1)		Michelson interferometry (2.9)	Sliding friction (5.2)	Temperature oscillations in a metal (2.3)	