

Course name	Experiments	Number of copies	Students capacity	Equipments and components	Average number of students	Lab. Dimension	Number of Labs
General Physics Lab.	1. Experiment 1	10	30	Force table	20		1
				Slotted weights			
				Digital stopwatch			
	2. Experiment 2	10		Slotted mass hangers			
				Steel tape measure			
				Holding magnet			
	3. Experiment 3	10		Fork-type light barrier			
				Trolley			
				Track, 1.5 m			
	4. Experiment 4	10		Combination light barrier			
		Multimeters					
		Electronic timer					
5. Experiment 5	10	Plug-in board					
		resistors					
		Low-voltage power supply					
6. Experiment 6	10	Multi-core cable, 6-pole, 1.5m					
		Potentiometer					
		XXXXXXXXXXXXXX					
7. Experiment 7	10						
8. Experiment 8	10						
9. Experiment 9	10						
10. Experiment 10	10						

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Thermal Physics and Mechanics Lab. PHY 1283	11. Experiment 1	4	20	Rotational model	14		1
				Forked light barrier			
				Multi-core cable, $l = 1.50$ m			
	12. Experiment 2	4		Counter S			
				Maxwell wheel			
				Stopwatch, digital, 1/100 sec			
	13. Experiment 3	4		Gyroscope with 3 axes			
				Power supply 5V DC/2.4 A			
				Additional gyro-disc w. counter-weight			
	14. Experiment 4	4		Torsion pendulum after Pohl			
				Bridge rectifier, 30V AC/1A DC			
				Digital multimeter			
	15. Experiment 5	4		Variable transformer, 25V AC/ 20V DC, 12A			
				Dewar vessel calorimeter			
				Cover for Dewar vessel			
	16. Experiment 6	4		Balance			
				Thermometer -10°C to $+110^{\circ}\text{C}$			
				Steam generator, 550W/220V			
	17. Experiment 7	4		Heating apparatus			
				Expansion apparatus			
		Holder for dial gauge					
18. Experiment 8	4	Dial gauge					
		Steam generator, 550 W/230 V					
		J tube					
19. Experiment 9	4	Dilatometer					
		Hot plate					
		Water separator					
20. Experiment 10	4	XXXXXXXXXXXXXXXXXX					

Course name	Experiments	Number of copies	Students capacity	Equipments and components	Average number of students	Lab. Dimension	Number of Labs
Waves and Optics Lab. PHY 1282	21. Experiment 1	4	20	Optical disk with 8 model objects.	12		1
				Transformer.			
				Muli-slit slide			
	22. Experiment 2	4		Light ray box			
				Halogen lamp housing			
				Transparency optical illusion			
	23. Experiment 3	4		Lenses			
				Translucent screen			
				Newton's ring			
	24. Experiment 4	4		He-Ne laser, linearly polarized			
		Fresnel's mirror, adjustable					
		Diaphragm with 3 single slits					
25. Experiment 5	4	Diaphragm with 3 double slits					
		Diaphragm with 4 double slits					
		Light filters (red, green and blue)					
26. Experiment 6	4	Polarization filters					
		Prism table					
		Spectrometer					
27. Experiment 7	4	Spectral tube power supply and mount					
		Copy of a Rowland grating, 600 lines/mm					
		Spectral tubes					
28. Experiment 8	4	XXXXXXXXXX					
29. Experiment 9	4						
30. Experiment 10	4						

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Electromagnetism Lab. PHY 1281	31. Experiment 1	6	20	demountable capacitors power supply 450 V two-way switch	15		1
	32. Experiment 2	6		Voltmeters (analog & digital) electrometer amplifier apacitors			
	33. Experiment 3	6		plug-in board function generator two-channel oscilloscope			
	34. Experiment 4	6		teslameter axial B-probe tangential B-probe			
	35. Experiment 5	6		high current power supply Straight conductor Circular conductor loops			
	36. Experiment 6	6		coil with variable number of turns per unit length electron deflection tube Helmholtz pair of coils			
	37. Experiment 7	6		high voltage power supplies DC power supply 0-16V / 0-5A safety connection leads			
	38. Experiment 8	6		Resistors Inductors Coil 1000 turns			
	39. Experiment 9	6		XXXXXXXXXXXX 			
	40. Experiment 10	6		 			

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Electronics Lab. PHY 1382	41. Experiment 1	8	20	Resistors	18		1
				Capacitors			
				Potentiometers			
	42. Experiment 2	8		Transistors			
				Operational amplifier			
				Diodes			
	43. Experiment 3	8		AC/DC stabilizer (-15V).to.(+15V)/1A			
				Multimeters (digital & analog)			
				two-channel oscilloscope			
	44. Experiment 4	8		Power supply unit			
			Plug-in board				
			Function generator				
45. Experiment 5	8		XXXXXXXXXXXXXXXXXX				
46. Experiment 6	8						
47. Experiment 7	8						
48. Experiment 8	8						
49. Experiment 9	8						
50. Experiment 10	8						

Course name	Experiments	Number of copies	Students capacity		Average number of students	Lab. Dimension	Number of Labs
Solid State Physics Lab. PHY 1481	51. Experiment 1	2	16	Electromagnet	10		1
				Planck's constant measuring instrument			
				Digital Gaussmeter			
	52. Experiment 2	2		Hall effect apparatus			
				Constant current power supply			
				AC & DC power supply			
	53. Experiment 3	2		Single output adjustable power supply			
				Regulated E.H.T power supply unit			
				Teslameter			
	54. Experiment 4	2		Microvoltmeter			
				Variable extra low voltage transformer			
				Two channel oscilloscope			
	55. Experiment 5	2		Multimeters			
				Spectral lamp, Cd, with holding plate.			
				Electron spin resonance apparatus			
	56. Experiment 6	2		X-ray apparatus			
				Electron diffraction tube			
				High voltage power supply			
57. Experiment 7	2		Polarization filters				
			High current power supply				
			Lab top				
58. Experiment 8	2		Cadmium lamp				
			Fabry-Perot etalon				
			XXXXXXXX				
59. Experiment 9	2						

	60. Experiment 10	2					