

Optical Engineering Laboratory Instructions

P. Herman

1. Purchase a bound lab book (8-1/2 x 11) to record all results and to write-up your lab.
2. Work in pairs; groups of three will be necessary only for classes exceeding 12 students.
3. Rough calculations and results should be on the left-hand side only. *Neatly* recorded, complete results, with sample calculations should be on the right hand side. Any loose graph sheets should be fastened to the left-hand side.
4. A complete write-up should include a brief purpose of the experiment, diagrams, results, sample calculations, comments, discussion, and conclusions.
5. Final laboratory marks will be based on:
 - Attendance
 - Performance in the laboratory
 - Results
 - Write-up and Accuracy of Statements
 - Grammar and English
6. The laboratory books shall be submitted to the teaching instructor at the completion of the experiment for comments, approval, signature, *and recording of attendance*.
7. Each individual must submit his or her own lab report. Lab partners share measured data and ideas, but all other aspects of the report must be your own work.
8. Laboratory books will be turned in for marking twice during the term - at the end of Geometric Optics (Labs 1 & 2) and at the end of term (Labs 3 & 4). Please hand completed laboratory books to Kitty Chan in GB254 on due date before 4:30pm:

Markers: Labs 1 & 2: Dragan Coric (EA 321; coric@ecf)
 Labs 3 & 5: David Cooper (SF4101; cooperd@ecf)

Session	Labs	SF2204	Lab Dates			
			P1	P2	P3	P4
			Wed	Tues	Wed	Thurs
			9 - 12	9 - 12	9 - 12	9 - 12
1.	Lab 1	- Spherical Lens & Optical Instruments	Sep27	Sep26	Sep20	Sep 28
2.	Lab 2	- Optical Fibers/ Prism Coupling	Oct11	Oct10	Oct4	Oct 12
3.	<i>Overlap Labs 2 & 3</i>		Oct25	Oct24	Oct 18	Oct 26
4.	Lab 3	- Interference & Interferometers	Nov8	Nov7	Nov 1	Nov 9
5.	Lab 4	- Optical Processing	Nov22	Nov21	Nov15	Nov23
		Lab 1 / 2 Due Date	Oct. 31	Oct 31	Oct. 25	Oct 31
		Lab 3 / 4 Due Date	Nov. 28	Nov 28	Nov 28	Nov 28

- Lab 1: Requires good preparation to complete in allotted 3 hours.
 Lab 2: ~4.5 hours and therefore overlaps with Lab 3
 Lab 3 & 4: ~4.5 hours; begins in Lab 3 and completed in Lab 4.