OPAC 101
Introduction to Optics

Topic 0
The Course

Department of
Optical & Acoustical Engineering
Gaziantep University

http://www.gantep.edu.tr/~bingul/opac101

Sep 2017
Web Resources for the Course

- Course web page

  http://www.gantep.edu.tr/~bingul/opac101

Lecture Notes
Example Exam Questions
Exam Results

- Also search Google and Wikipedia for any of the expressions used in this course.
The Course Books

Introduction to Optics
(2nd or 3rd Ed)

F.L. Petrotti
Pearson
~ 100 $

Modern Optical Engineering (3rd Ed)

W. Simith
McGraw-Hill
~ 90 $
The Course Books (basic level)

Physics for Scientists and Engineers

*R. A. Serway and J. W. Jewett*

Brooks Cole

\(\sim 50 \) $
Course Content

- The Light
- Light Sources
- Introductory Photometry
- Geometric Optics (Paraxial Theory) (Reflection, Refraction, Mirrors, Lenses, etc)
- Basic Optical Instruments
- The Eye
- Aberation Theory
- Introductory Wave Optics
Lectures, Attendance & Exams

- **Tuesdays**
  
  *two-hour lecture*: 13:30-16:30

- **Wednesdays**
  
  *two-hour lecture*: 10:20-12:20

- **Thursdays**
  
  *two-hour lab*: 15:30-17:20

- **Attendance**
  
  You must attend at least 70% of the course

- **Exams**
  
  - First Midterm 20% (written)
  - Second Midterm 20% (written)
  - Project & HW 20%
  - Final 40% (written)