NOTE: In all solutions, state explicitly every assumption and/or approximation made, explain every procedure, and justify its use. Dimensional analyses are absolutely necessary. All results must be expressed in appropriate units. PLEASE, ALWAYS SHOW ALL WORK, while writing your results only on one side of the sheet(s) of paper; start each problem on a new sheet. Attach this sheet to your solution. Show your work using a clear and professional style.

PROBLEM 2.1. Based on the possible applications of optical metrology in your current/future research investigations, develop, prepare, and submit two Project Proposals for this course. Proposals should be prepared in groups.