

COURSE CODE: LBYPHO2

COURSE TITLE: Fundamentals of Physics Laboratory: Circuit and Heat (Full-Online)

DEPARTMENT: Physics

TEXTBOOK:

- Manual of each experiment can be found in the AnimoSpace in Canvas course.

READING LIST/ TEXTBOOK REFERENCES:

- Young, H. and Freedman, R. (15th edition). University Physics with Modern Physics. Pearson.
- Serway, Raymond A., & Jewett, John W., (Latest Edition), Physics for Scientists and Engineers. CENGAGE Learning.
- Halliday, D., Resnick, R: and Walker J. (Latest Edition). Fundamentals of physics. New York: John Wiley and Sons.
- Jones, E., Childers, R. (Latest Edition), Contemporary college physics. Boston: Mc-Graw Hill Companies, Inc.
- Knight, Randall. Jones, Bryan, et al. (Latest edition). College Physics: A Strategic Approach. Pearson.

REQUISITE EQUIPMENT/MATERIALS FOR THE COURSE:

- MatLab[®] [Online]. Available: <https://www.mathworks.com/products/matlab-online.html>
- Multisim[®] [Online]. Available: <https://www.multisim.com/>
- Simulink[®] [Online]. Available: <https://www.mathworks.com/products/simulink.html>
- e-Gizmo Physics Electrical Package 2 with DMM or e-Gizmo Physics Electrical Package 1 (can be purchased from e-Gizmo online shop: : <https://shopee.ph/search?keyword=physics%20electrical&shop=237034143>)
- Alcohol thermometer (~ 0 - 100°C)
- Kitchen weighing scale or graduated cylinder or measuring cups