

**NTHU Electrical Engineering Department**  
**EE3360 Optoelectronic Devices (光電元件)**  
**Spring 2024**

**Instructor:** 洪毓珽 (台達 927 分機 62175) [ychung@ee.nthu.edu.tw](mailto:ychung@ee.nthu.edu.tw)

**Time:** W7W8W9

**Location:** 台達 212

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**Prerequisite:** 電磁學

**Course Description:** 此門課適合已修過電磁學的大二或大三同學修習，課程內容簡介數種光電元件的原理與應用。

- Background and fundamentals
- Light-emitting devices
- Light-receiving devices
- Light-guiding devices
- Other photonic devices

**Grading Policy:**

Quiz	15%
Midterm Exam	30%
Final Exam (整學期內容)	40%
Final Report	15%

**Reference Textbooks:**

- S. O. Kasap, *Optoelectronics and Photonics*, 2<sup>nd</sup> edition, Pearson, 2012.
- David K. Cheng, *Field and Wave Electromagnetics*, 2<sup>nd</sup> edition, Addison Wesley, 1989.
- Joseph T. Verdeyen, *Laser Electronics*, 3<sup>rd</sup> edition, Prentice Hall, 1995.
- Saleh & Teich, *Fundamentals of Photonics*, 2<sup>nd</sup> edition, Wiley, 2007.
- J. Wilson & J. Hawkes, *Optoelectronics: an introduction*, 3<sup>rd</sup> edition, Prentice Hall, 1998.