COURSE DETAIL

INTRODUCTION TO PHOTONICS TECHNOLOGIES
Country Singapore
Host Institution Nanyang Technological University
Program(s) Nanyang Technological University
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Electrical Engineering
UCEAP Course Number 115
UCEAP Course Suffix
UCEAP Official Title INTRODUCTION TO PHOTONICS TECHNOLOGIES
UCEAP Transcript Title PHOTONICS TECHNOLOG
UCEAP Quarter Units 4.50
UCEAP Semester Units 3.00

Course Description

This course examines the fundamentals of photonic technologies, and how these technologies are applied to and influence daily life. Topics include how photonics contributes to the fundamental platform for nanotechnology, green energy, home entertainment, data storage, sensing, imaging, biomedical healthcare, and modern optical communications. This course is intended for students with various engineering backgrounds (e.g. electrical, electronic, chemical, biological, mechanical, civil, aerospace, etc.) to learn the impact of photonics in fields ranging from nanotechnology to communications at a fundamental level rather than a mathematical-based formulated course.

Language(s) of Instruction
English

Host Institution Course Number
EE3018

Host Institution Course Title
INTRODUCTION TO PHOTONICS TECHNOLOGIES

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department
Electrical and Electronic Engineering

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