

# COLLEGE OF ELECTRICAL & INFORMATION ENGINEERING

## Graduate Institute of Electro-Optical Engineering



### About Us

Founded in 1998, the Graduate Institute of Electro-Optical Engineering is an exceptional independent institute in Tatung University and one of the leading electro-optical engineering institutes in Taiwan. With the mission of providing the intellectual community with high quality education pertinent to the optical, solid-state electronic and photonic engineering discipline, the institute's teaching, research and infrastructure demonstrate the value of engineering excellence by translating intellectual achievement into practical progressive action in conjunction with Tatung Company. To pursue excellence in research, then in electro-optical engineering, our PhD degree was established in 2004.

### Primary Research Areas

- Nano-Photonics technology in Surface Plasmon sensors.
- Fiber-optics bio sensors.
- High speed vacuum microelectronics with carbon nanotube and graphene emitter.
- Advance thin film transistor for display applications by rapid thermal annealing of polycrystalline silicon.
- Highly vertically aligned ZnO nanoneedle arrays grown by plasma-assisted molecular beam epitaxy.

### Core Courses

Electro-optical engineering, Solid-state electronic device and physics, Modern optics, Laser optics, Display technology, Nano-technology in electro-optical engineering, Semiconductor measurement.

#### Course Requirements:

- Requirements for a M.S. Degree: 38 credits of courses with thesis
- Requirements for a Ph.D. Degree: 39 credits of courses with dissertation

### Contact

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