Empowering Young Minds,
Creating New Leaders,
Engineering the Future

ECE Website

ElEctrical & computEr EnginEEring

nurturing Engineer-leaders

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Websites
www.ece.nus.edu.sg
(For general information)
www.ece.nus.edu.sg/education/graduate/PhD.html
(For Ph.D/M.Eng programmes)
www.ece.nus.edu.sg/education/graduate/MSc.html
(For M.Sc program)
WHAT is Electrical & Computer Engineering (ECE) all about?

ECE is about innovation and creation of services and technology using principles related to electricity, magnetism and light. ECE is the driving force behind many modern inventions. Smartphones and the Internet are just two examples of ECE-related inventions that have evolved rapidly and revolutionized our world. ECE is a discipline that has plenty to offer in terms of discovery, innovations, and creativity. Join us for an exciting learning experience and promising career prospects!

Integrated Circuits & Embedded Systems
- Analog and mixed-signal integrated circuit design
- Radio frequency integrated circuit design
- Micro-Electro-Mechanical Systems (MEMS)
- Integrated circuits for biomedical applications
- Platform architectures and associated EDA tools
- Distributed systems

Power & Energy Systems
- Power electronic converters, electrical drives & control
- Power semiconductor devices & microelectronics
- Micro-grid, smart-grid, & renewable energy operation & control
- High voltage testing & lightning protection
- Intelligent transportation systems
- Energy harvesting for portable electronic systems

Microelectronic Technologies & Devices
- Nanomaterials & nanostuctures
- Silicon nanodevices
- Optoelectronics, photonics & plasmonics
- Nanomagnetism & spintronics
- Renewable energy
- Nano-sensors, MEMS

Communications & Networks
- Wireless communications (free-space and underwater)
- Optical communications
- Information theory & networking

Graduate Studies @ ECE, NUS
- Among the most exciting and challenging engineering disciplines
- Consistently ranked among the top in the QS World University Rankings by Subject for Engineering - Electrical & Electronic
- Innovative & exciting programmes including Joint PhD with top international schools, Industrial PhD with top multi-national companies, Concurrent and Double Degree programmes, and Thematic Programmes with A*STAR
- Diversified research areas
- Comprehensive, top-notch infrastructure and research facilities
- Dedicated faculty members with excellent credentials
- Vibrant, exciting, rewarding & challenging research experience
- Attractive financial support
- Promising career prospects

Ph.D student Abhra Roy Chowdhury with his award

Ph.D student Ray Fang Hongzhao (front row, left) with SONDRA team in France

Graduate student Ray Fang Hongzhao (in front) with SONDRA team in France

Prof Ho Ghim Wei with her fibrous photocatalyst mat

Prof Yang Hyunsoo (centre) holding the chip, with his team, Research Fellow Dr Qiu Xuepeng (right) and Dr Kulothungasagaran Narayanapillai (left).