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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)







Department of Electrical & Computer Engineering Faculty of Engineering



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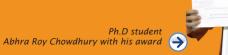
WHAT is Electrical & Computer Engineering (ECE) all about?

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 revolutionalised 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!



Power & Energy Systems

- · Power electronic converters electrical drives & control
- Power semiconductor devices &





- · Nanomaterials & nanostructures
- Silicon nanodevices
- Optotoelectronics, photonics & plasmonics
- Nanomagnetism & spintronics
- · Renewable energy
- · Nano-sensors, MEMS





Prof Ho Ghim Wei with her fibrous photocatalyst mat

- circuit design Radio frequency integrated circuit
- Micro-Electro-Mechanical Systems (MEMS)

· Analog and mixed-signal integrated

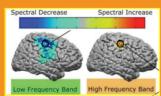
Integrated circuits for biomedical applications

Integrated Circuits &

Embedded Systems

- Platform architectures and associated FDA tools
- Distributed systems

design





Communications &

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







- Intelligent control systems & intelligent mechatronics
- · Computational intelligence, machine learning & optimization
- Robotics & autonomous systems





Microwave & RF

- Microwave/RF circuits & systems
- Antennas & propagation
- Electromagnetic scattering & imaging
- Computational electromagnetics



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Signal Processing &

- · Computer vision & image Processing
- · Medical imaging, neuro coding & psychophysics
- Human computer interaction & immersive environment
- · Mixed reality & AI in games

SONDRA



Graduate Studies @ ECE, NUS

- Among the most exciting and challenging engineering disciplines
- · Consistently ranked among the best in the OS 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, enriching, rewarding & challenging research experience
- · Attractive financial support Promising career prospects





