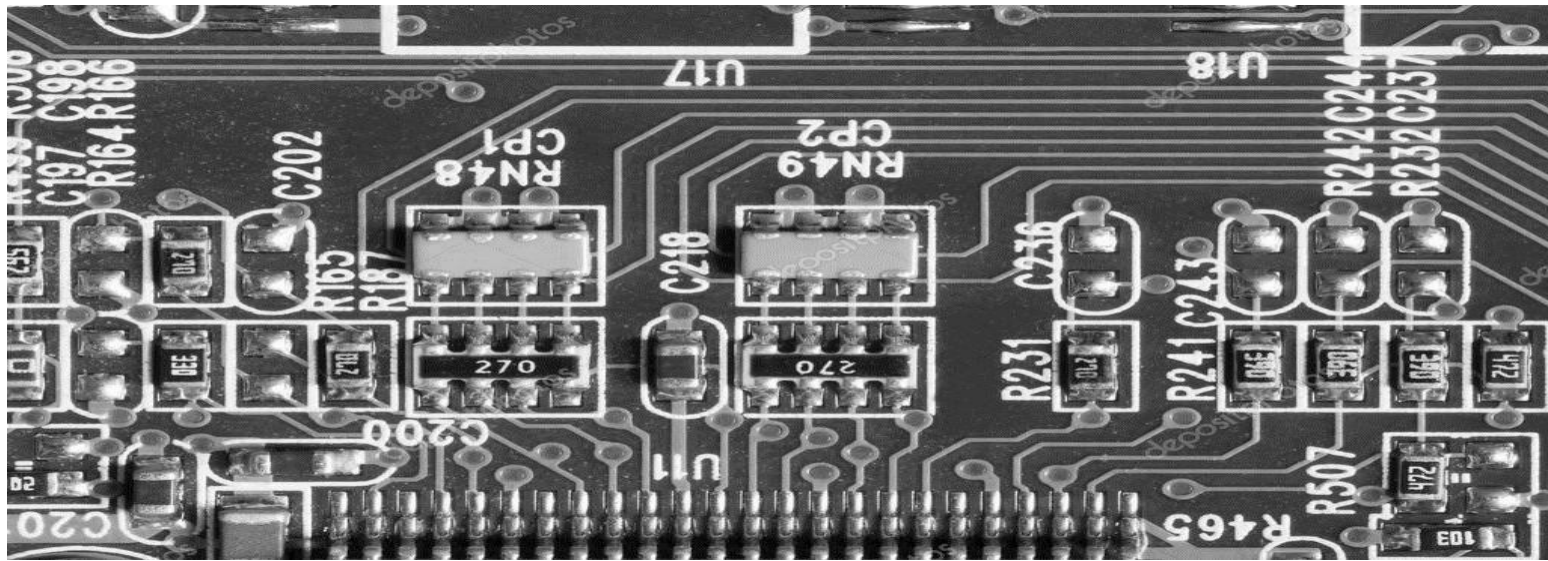


Branch:Electrical Engineering



Code: GREELE

Option: Green electronics

Level: Master

Prerequisites:

Opportunities:

Graduates of the Master of Science in Green Electronics program can seek employment in research institutes, green electronics related companies worldwide, or pursue further graduate studies. Graduates can take on professional roles in process development, process integration, and device characterization and modelling in the semiconductor industry.

Graduates also have extensive career opportunities, not only in the electronics manufacturing industry, but also in the photovoltaic industry, low-power displays, nanomaterial's and biomaterials, sensors and communication.

Description:

This program aims to train the next generation of semiconductor researchers and engineers who will work in the research areas of new electronic/optoelectronic devices and systems, with a particular focus on the areas of energy, sensing, monitoring and manufacturing.

What happens in this study program?

The Master of Science in Green Electronics is a highly specialized program offered jointly by Nanyang Technological University (NTU) and the Technische Universität München (Technical University of Munich, UUT). The program aims to train the next generation of semiconductor researchers and engineers

who will work in the research areas of new electronic/optoelectronic devices and systems, with a particular focus on the areas of energy, sensing, monitoring and manufacturing.

Through this two-year full-time program, the student will gain a comprehensive and in-depth knowledge of micro/nano-fabrication technology and advanced theories for renewable energy, power semiconductors and organic semiconductor devices and systems. The topics covered in this program are state-of-the-art research and industrial developments. Key non-technical topics such as product marketing, international management, patent law and aspects of culture and globalization will also be covered in the courses. These non-technical courses will be taught mainly by lecturers from industry.

Quality and competences:

This program provides students with the academic skills and practical knowledge required for the design, development and manufacture of integrated circuits or integrated electronic products.