Master of Science in Electrical Power Engineering (EPE)
Awarded by Newcastle University
Postgraduate taught degree, face to face sessions
Programme duration: 12 months full-time; 24 months part-time study
This programme can be completed in 12 months part-time study.

About the Programme
The Master of Science in Electrical Power Engineering is a 1-year full-time postgraduate taught programme. It is designed to meet the Framework of Higher Education Qualifications (FHEQ) at Masters level and takes appropriate account of the subject benchmark statements in Engineering.

The programme will develop the advanced skills required for a career in electrical power engineering. It will provide extensive knowledge from recent industrial applications alongside all the relevant theoretical background. Successful students on this course will acquire the analysis, synthesis and evaluation skills required to solve important problems in electrical power engineering.

Learning Outcomes
The programme provides opportunities for students to develop and demonstrate knowledge, understanding, skills and other attributes associated with the theme of Electrical Power Engineering. A successful student will have gained and be able to demonstrate:

- A knowledge and understanding of a total of 6 advanced topics in the field of Electrical Power Engineering: Power Electronics, Renewable Energy Technologies, Advanced Electrical Machines and Power Systems Operation and management, advanced power system analysis, smart grids and computational intelligence techniques.

- The technical expertise that underpins informed project planning, design and decision making in the area of Electrical Power Engineering.

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- Computer aided design and analysis techniques appropriate to Electrical Power.

- A particular topic connected with Electrical Power Engineering studied in-depth as part of a research project.
Modules (All modules are core units)

- Advanced Power System Analysis
- Advanced Power Electronics
- High Voltage Technologies and Testing
- Smart Grids and Applications of Computational Intelligence
- Renewable Energy Heating and Cooling
- Smart Grids and Applicatio
- Individual Project
- Advanced Electrical Machines and Drives
- Renewable Energy Technologies
- Power System Operation and Management

Minimum Entry Requirement

First degree in Electrical/Electronic Engineering or equivalent engineering qualification with minimum lower second class classification (2.2).

English Language Entry Requirements: IELTS overall 6.5 or equivalent.

Application Fees per programme (non-refundable), subject to prevailing GST

- Singapore Citizens and/or Permanent Residents: SGD90/-.
- Singapore Employment and/or Dependant's Pass Holders: SGD135/-.

Tuition Fees per programme, subject to prevailing GST

- Singapore Citizens and/or Permanent Residents: SGD15,000/-.  
- Singapore Employment and/or Dependant's Pass Holders: SGD22,500/-.

Applicant Eligibility

The course is only available to Singapore Citizens, Singapore Permanent Residents, Singapore Employment Pass holders, Singapore Dependant's Pass* holders.

*subject to approval by the respective pass-issuing authority.

How to apply

Interested applicants should attend a pre-application counselling session in NewRIIS before applying online at: [http://www.ncl.ac.uk/postgraduate/apply/](http://www.ncl.ac.uk/postgraduate/apply/).

Website: [www.ncl.ac.uk/singapore/newriis/](http://www.ncl.ac.uk/singapore/newriis/)

For more information, please contact the NewRIIS team: [newriis.research@newcastle.ac.uk](mailto:newriis.research@newcastle.ac.uk) / +65 6514 0568.