# Master's Program in Information and Communication Engineering

**Title/degree:** Master of Engineering (M.E.)

**Duration:** 2-3 years, full-time

**Start month:** September

**Language of instruction:** English

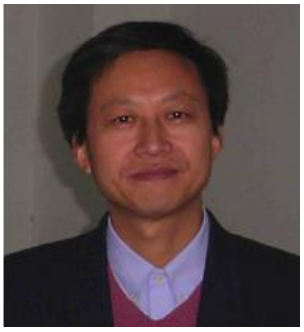
## I. Program Description

The English-taught Master of Engineering (M.E.) in Information and Communication Engineering program extensively enrolls and cultivates worldwide master's degree students under the primary discipline Information and Communication Engineering, including the two sub-disciplines of Communication and Information Systems, Signal and Information Processing. The main research themes of the discipline relate to the access, processing, transmission, and control of information in various communication and information systems. The research fields cover wireless communication and remote monitoring, network communication and sensor network, internet of things, coding and information security, image processing and pattern recognition.

## II. Why study Information and Communication Engineering at Donghua University?

1. *Our approach is pragmatic as well as theoretical. As an academic, we not only expect you to understand and make use of the appropriate tools, but also to program and develop your own.*
2. *There are plenty of high profile companies in the vicinity, where you could do an internship or the research for your Master's project.*
3. *Currently, we have more than 1000 students enrolled in the College of Information Science and Technology in Donghua University. They can enjoy the advantages of our faculty as there are:*
   - *Excellent support of the students from 11 professors and numerous scientific faculty members and tutors*
   - *Various courses of study, focused on different topics*
   - *Excellent scientific reputation (national and international).*

## III. Participating Professors and Junior Scientists



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## IV. Modules

*C：compulsory course  E：elective course  CP：credit points*

| ***Consolidation Phase 1st Year*** | | | |
|---|---|---|---|
| *C/E* | *Topic* | *CP* | |
| *C* | *Modern Mathematical Methods* | *3* | *One needs to obtain 22CPs from compulsory courses and 12CPs from elective courses. These 34CPs should in general be acquired in the 1st year.* |
| *C* | *Modern Control Theory* | *3* | |
| *C* | *Pattern Recognition: Theory and Technology* | *3* | |
| *C* | *Intelligent Systems and Control* | *3* | |
| *C* | *Introduction to China* | *2* | |
| *C* | *Chinese Language* | *8* | |
| *E* | *Embedded Systems: Theory and Application* | *3* | |
| *E* | *Information Security of Networks* | *3* | |
| *E* | *Data Mining* | *3* | |
| *E* | *Internet of Things* | *3* | |
| *E* | *Modern Signal Processing* | *3* | |
| *E* | *Image Communication and Information Processing* | *3* | |

| ***Scientific Phase*** | | | |
|---|---|---|---|
| ***2nd Year*** | *Thesis Proposal* | | |
| ***3rd Year*** | *Final Defense* | | |
| | *Concealed Evaluation* | | |

*In case you experience any problems throughout your studies, please contact student advisors. They are ready to help you personally for all situations you might encounter.*

*Ms. Ai Xin.*