



HANOI UNIVERSITY OF SCIENCE AND TECHNOLOGY

School of Electrical Engineering



School of Electrical Engineering

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Outline

☐ Introduction

☐ Education, research & technology transfer

- ❖ Field of study

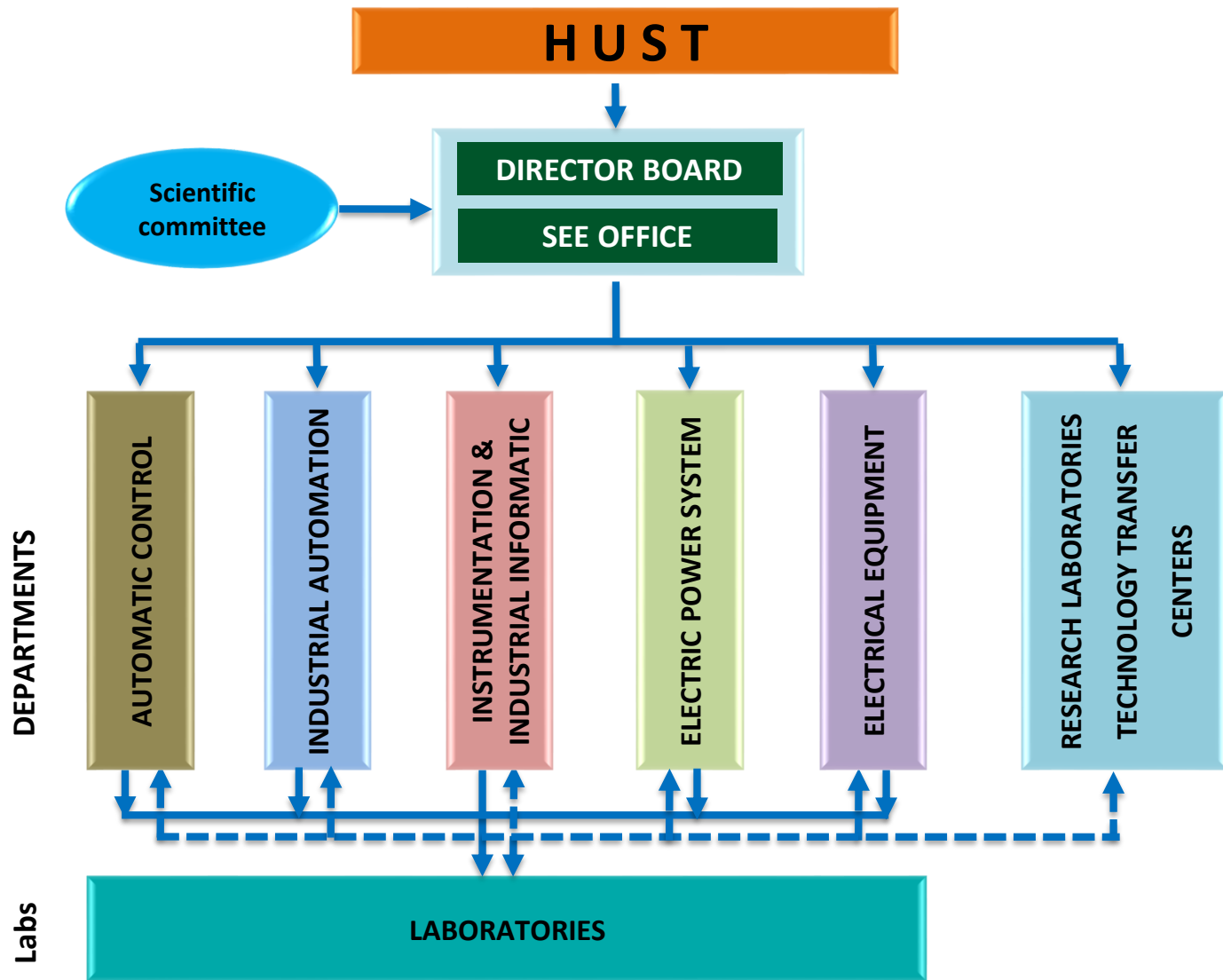
- ❖ Research & Technology transfer

☐ Cooperation

☐ Discussion



ORGANIZATION



RESOURCE

□ Human resource: 142

- ❖ Researcher/Teacher: 120
 - 68 PhD.
 - 87% PhD. graduated from overseas
- ❖ Staff & Assistant: 22



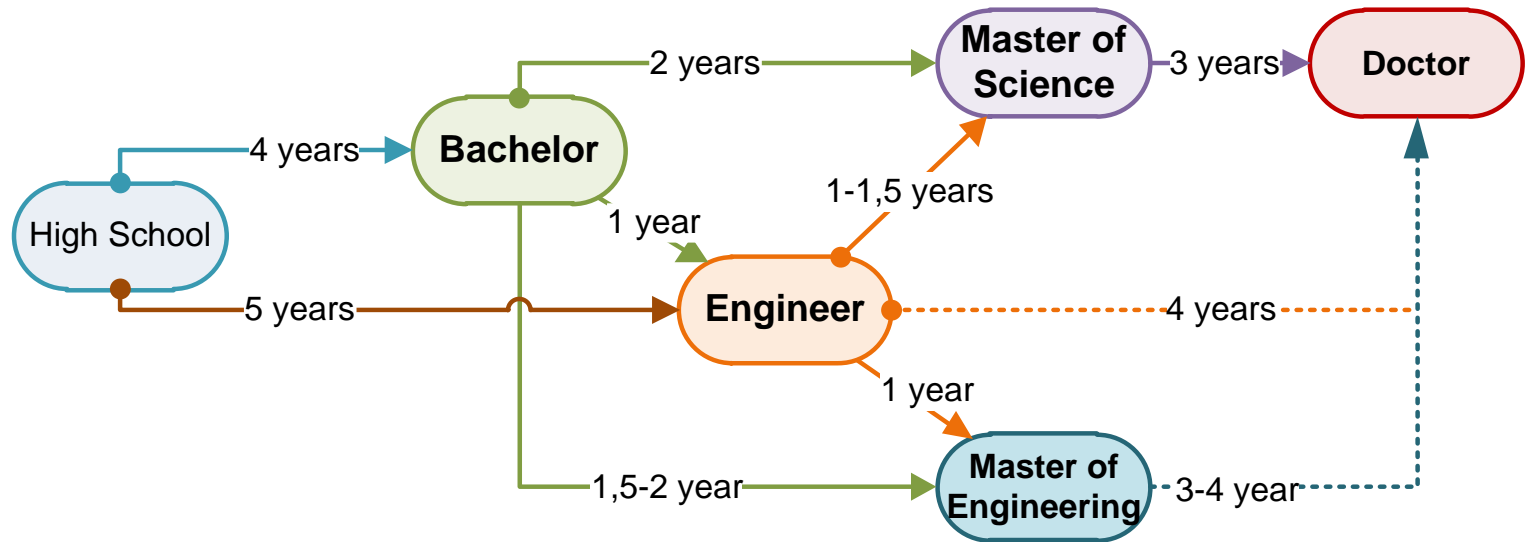
□ Facilities

- ❖ 28 laboratories (>2000m²)
- ❖ Cooperation with industry



STUDY PROGRAMS

□ Basic program



□ Special program

- ❖ **Advanced program** in Electronic & Electrical Engineering (in English)
- ❖ **High quality engineer program** in Instrumentation & industrial informatics
- ❖ **Talent engineer program** in Automation Control



FIELD OF STUDY

□ Electrical engineering

❖ Electric power system

- High voltage engineering
- Power operation
- Power system protection & Control
- Power distribution system
- Power transmission system

❖ Electrical equipment

- Electrical machine design
- Electrical devices
- Electrical device control



FIELD OF STUDY

□ Control & Automation

❖ Instrumentation & industrial informatics

- Signal processing
- Theories of electric & electromagnetic
- Electronic & microprocessor

❖ Automatic control

- Theories of automatic control
- Process control
- Motion control

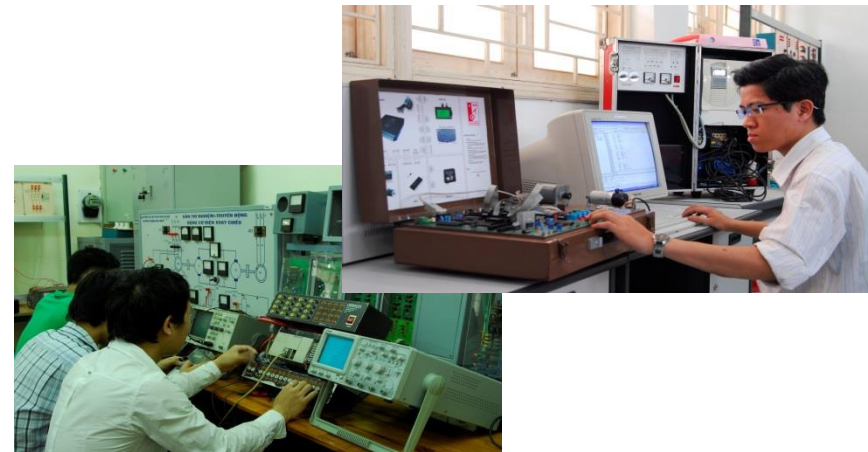


FIELD OF STUDY

❑ Control & Automation

❖ Industrial automation

- Embedded system
- Electric vehicle
- Power electronic
- Control
- Robotic



TRAINING & RESEARCH COOPERATION

❑ Domestic cooperation

- ❖ Co-research & Technology transfer
- ❖ Advanced Training
- ❖ Workshops
- ❖ Scholar exchange



SME



SoICT



MICA



SET

Thai Nguyen
university

HCM university

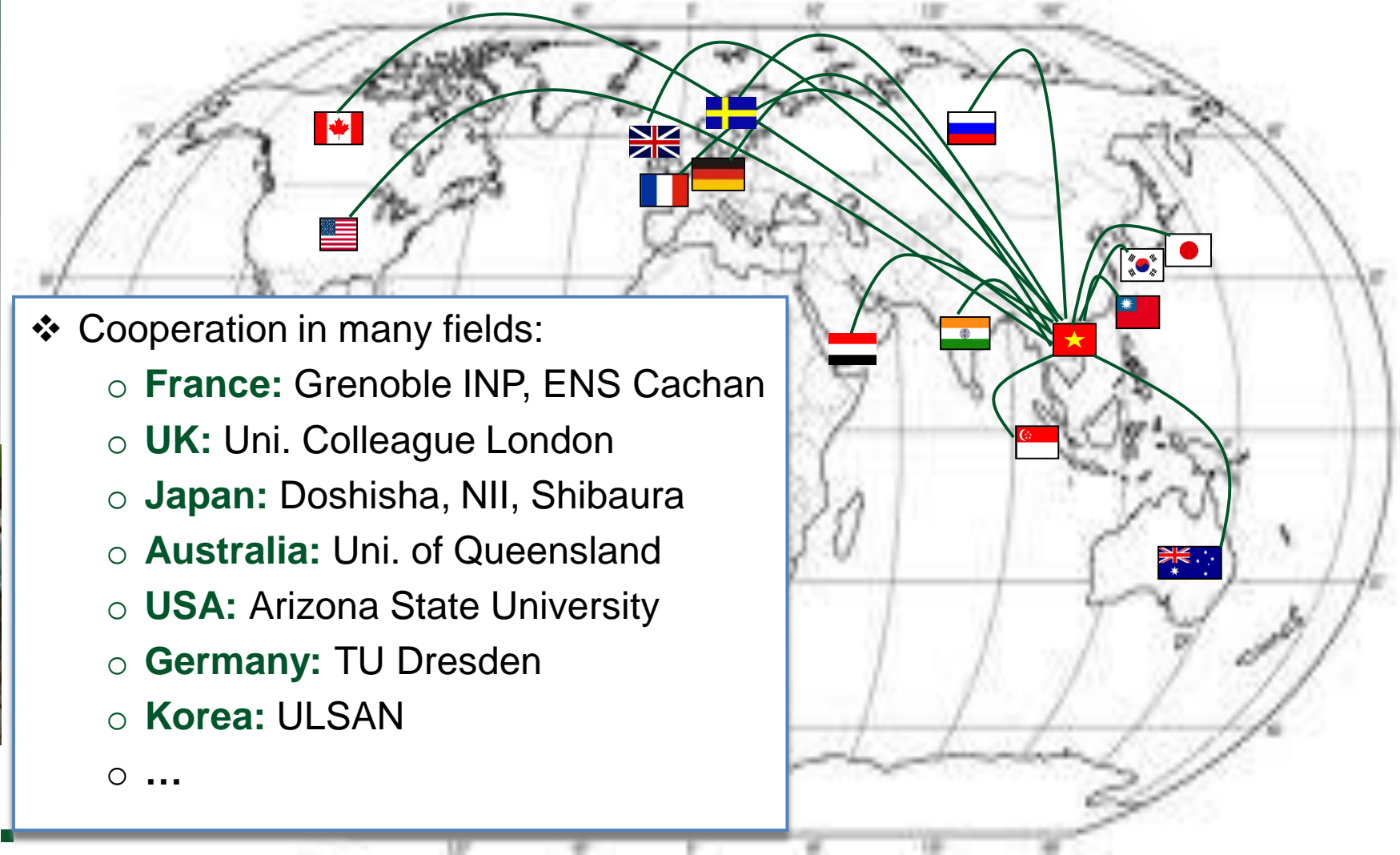
Da Nang
universityEVNEPU
ĐẠI HỌC ĐIỆN LỰC
Electrical power
universityVietnam Metrology
InstituteQuy Nhon
university

TRAINING & RESEARCH COOPERATION

□ International cooperations

❖ Cooperation in many fields:

- **France:** Grenoble INP, ENS Cachan
- **UK:** Uni. Colleague London
- **Japan:** Doshisha, NII, Shibaura
- **Australia:** Uni. of Queensland
- **USA:** Arizona State University
- **Germany:** TU Dresden
- **Korea:** ULSAN
- ...



INDUSTRIAL COOPERATION - in Vietnam



Vietnam
Electricity



National Power
Transmission corporation



Vietnam Metrology
institute



Vietnam Electrical
Equipment corporation



Vietnam Cement
Industry corporation



Vietnam Paper
corporation



PetroVietnam power
corporation



Vietnam National
Chemical group



Construction Machinery
corporation



Infrastructure Development
& Construction corporation



Song Da
corporation

INDUSTRIAL COOPERATION - international

COOPERATION

OMRON

SIEMENS

 TEXAS
INSTRUMENTS

ABB

Tektronix®

ALSTOM

Rockwell
Automation

 NATIONAL
INSTRUMENTS™

 LG

 SAMSUNG

Schneider
Electric

 ZEBRA

TABUCHI ELECTRIC CO., LTD.

 FANUC