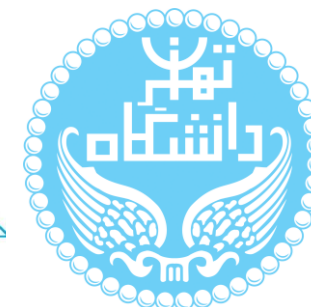# SCHOOL OF ELECTRICAL AND COMPUTER ENGINEERING

OVERVIEW

❖ The School of Electrical and Computer Engineering at University of Tehran is the leading school in the nation which is established in 1934.

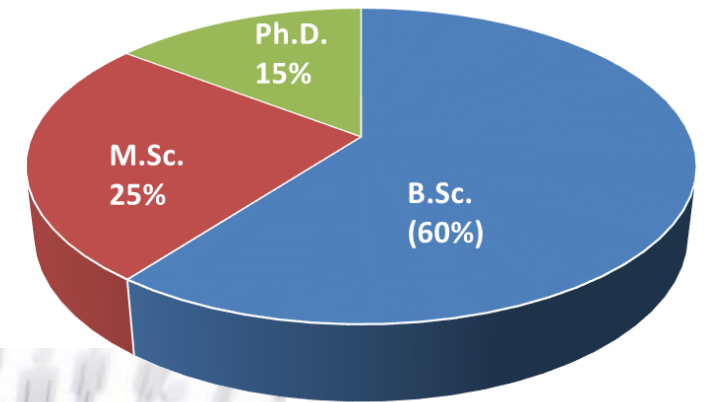❖ Having EE and CE together in a blended academic environment in 29000 square meters

SCHOOL MISSION

o Our school's mission is to provide **world-class education** in the general area of electrical and computer engineering.

o We aim to foster **team-working, problem solving, creativity, innovation, entrepreneurship, and leadership** in our students.

o The school seeks to continuously engage with **cross-disciplinary inquiries** for the advancement of modern sciences and technologies, aiming at **sustainable development** for the benefit of humans and nature.

o We also seek to enable our students to develop **social awareness**, and to reflect upon **moral and ethical** issues.

EDUCATION

It offers undergraduate, masters, and PhD degrees, with more than 1600 students

The school is the choice of top 0.9% Iranian students

The school have had a unique role in developing **new and interdisciplinary fields** in the country, including,
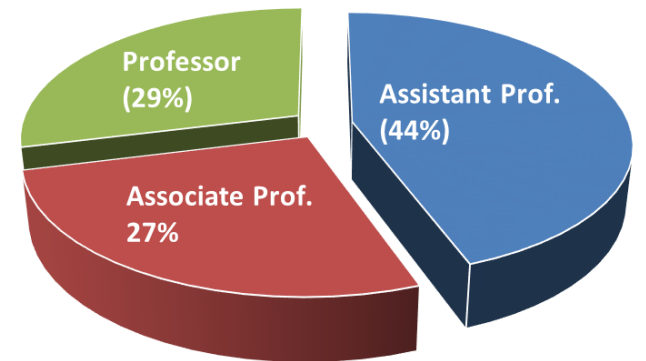
Cognitive

Big Data

Learning System

Cancer Technology

ECE DEPARTMENTS

➢ Bio-Electric

➢ Communication

➢ Computer Architecture

➢ Control

➢ Digital Systems

➢ Electronics

➢ Information Technology
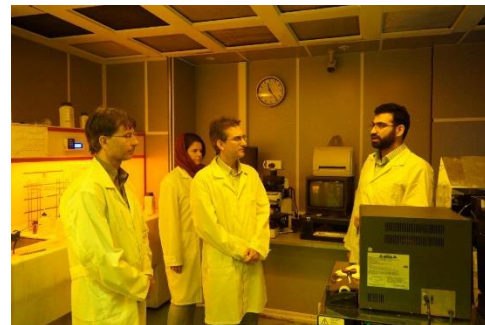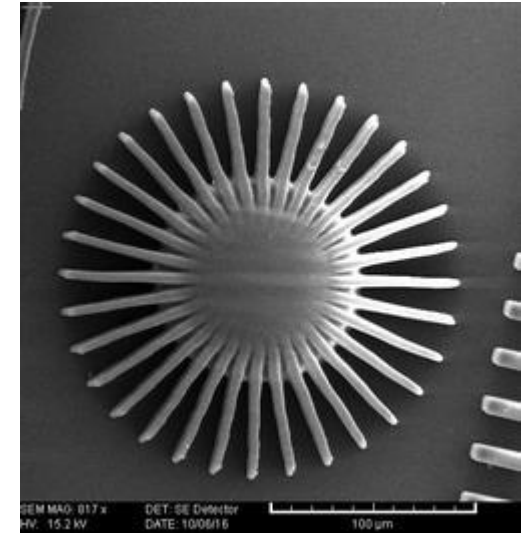
➢ Machine Intelligence and Robotics

➢ Power

➢ Software

FACULTIES AND RESEARCH LABORATORIES

❖Home to more than 91 faculties; who teach, mentor, lead, and conduct world class research and technology development.

❖About 90 research and educational laboratories

❖Three Centers of Excellence

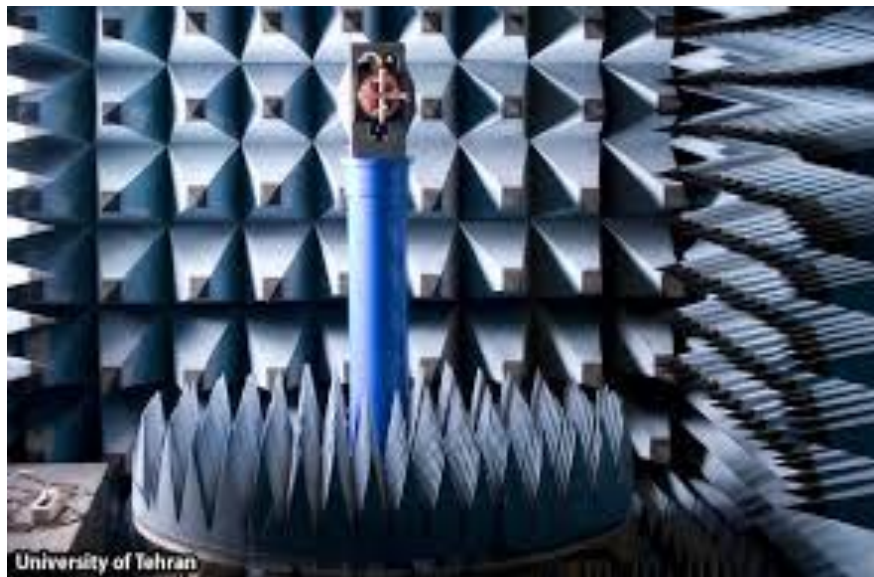- Control and Intelligent Processing
- Nano Electronics
- Applied Magnetics

Professor (29%)

Assistant Prof. (44%)

Associate Prof. 27%

INFRASTRUCTURES

❖Thin Film and Nano-Electronic Laboratory

❖MEMS and NEMS Laboratory

❖Hosting the National Brain Mapping Laboratory

❖In-house Innovation Center

❖High Performance Computing

❖General Workshop

❖Fabrication Laboratory

NATIONAL LABORATORIES

Antenna

Power

Lighting

SCHOOL RESEARCH TOPICS

1. **Energy & Environment:**
   A. **Electrical Power Systems**
   B. **Environment & Pollution**
   C. **Energy Storage & Conversion**

SCHOOL MAIN RESEARCH TOPICS (CONT'D)

2. **Smart Infrastructures & Tools**
   A. **Cyber Physical Systems**
   B. **Advanced Tools and Methods**
   C. **Electronic Sensors, Devices and Circuits**
   D. **Telecommunication**

SCHOOL MAIN RESEARCH TOPICS (CONT'D)

3. **Health & Biotechnology**
   A. **Personalized & Soft Medicine**
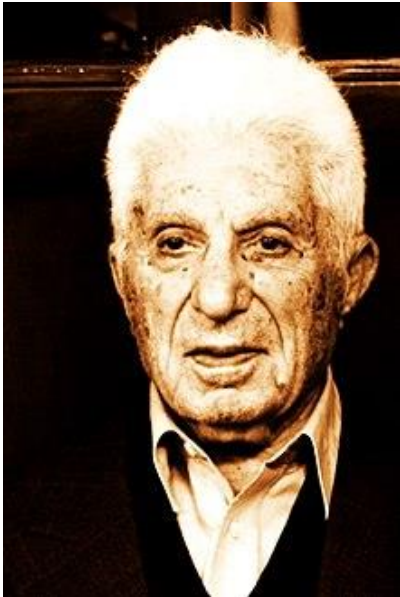   B. **Medical Imaging**
   C. **Brain and Cognitive Sciences**

INTERNATIONAL ACTIVITIES

❖Student Exchange

❖International Students

❖Dual Degree Programs

❖Holding International Workshops, Symposiums, and Conferences

❖International Research Projects

WORLD-CLASS PRESTIGIOUS GRADUATES

Prof. F. Reza
(Co-founder of network and information theory)

Prof. L. A. Zadeh
(Founder of Fuzzy logic theory)

Prof. A. Javan
(Inventor of Laser technology)

Thank you