

# BLG111E- Introduction to Computer Engineering

**Prof. Sema OKTUĞ**  
**Week#2**

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# Major Computing Disciplines:

- Computer Engineering,
- Computer Science,
- Information Systems,
- Information Technology,
- Software Engineering.

According to ACM Curricula, Overview Report, 2005.



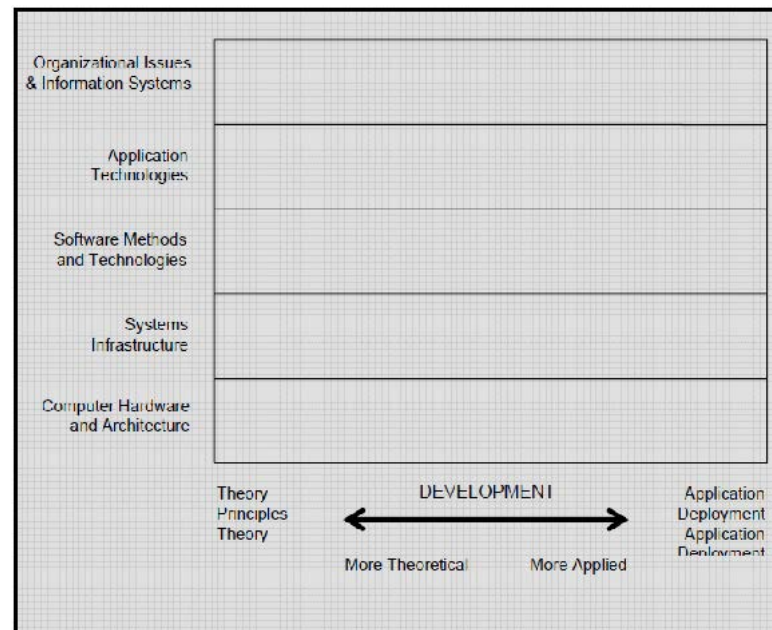
# What is Computing?

We can define computing to mean any goal-oriented activity requiring, benefiting from, or creating computers.

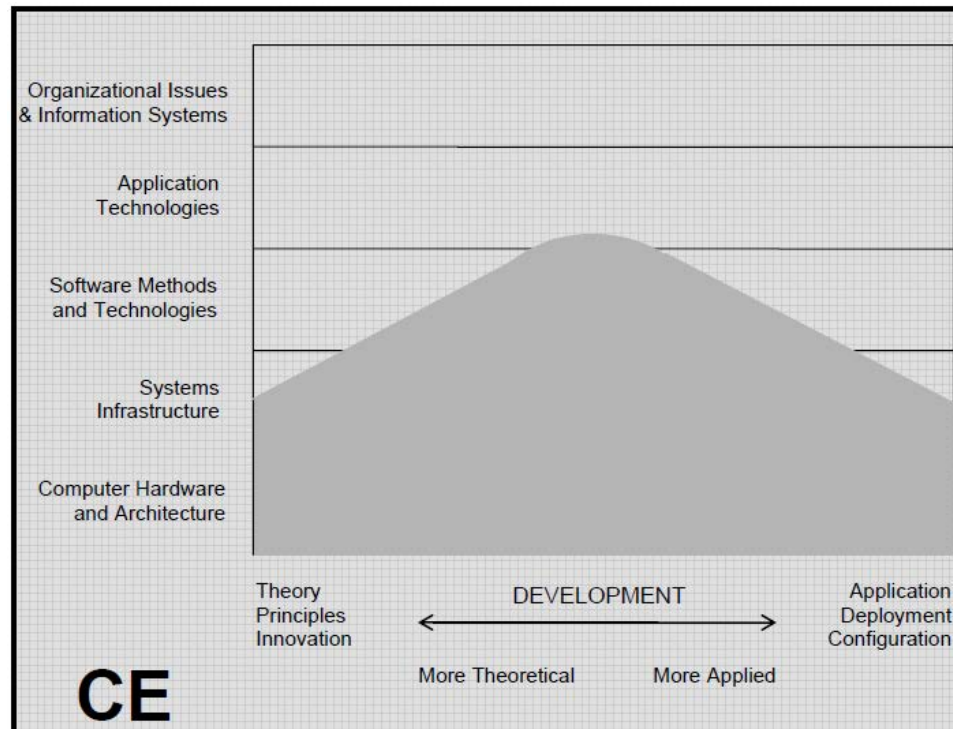
# Includes:

- Designing and building hardware and software systems for a wide range of purposes,
- Processing, structuring, and managing various kinds of information,
- Doing scientific studies using computers,
- Making computer systems behave intelligently,
- Creating and using communications and entertainment media,
- Finding and gathering information relevant to any particular purpose.
- And so on.

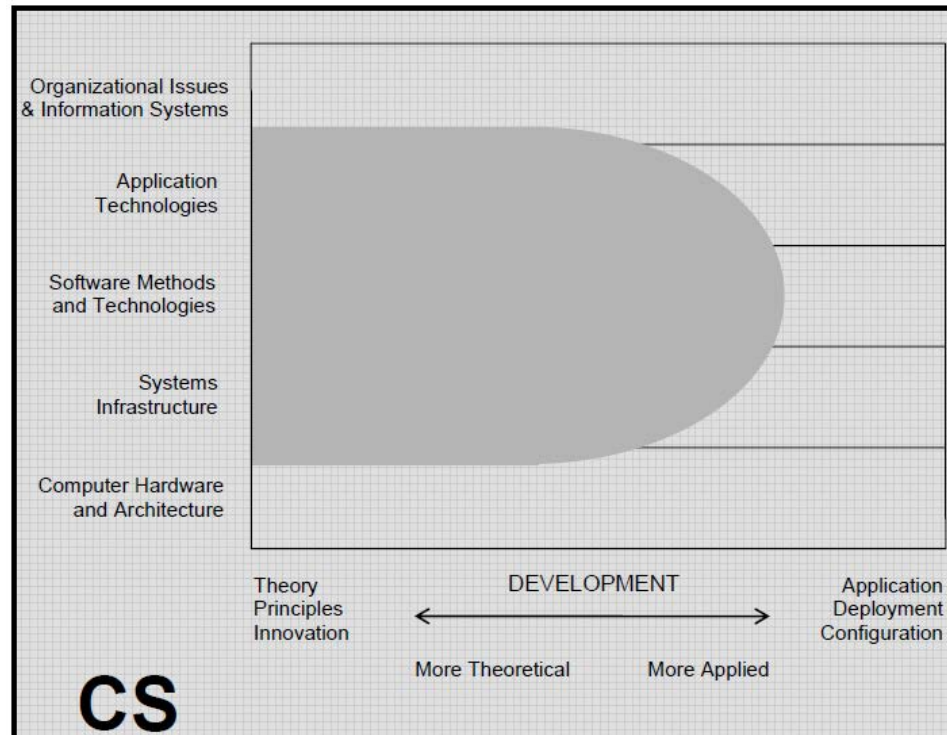
# The Problem Space of Computing



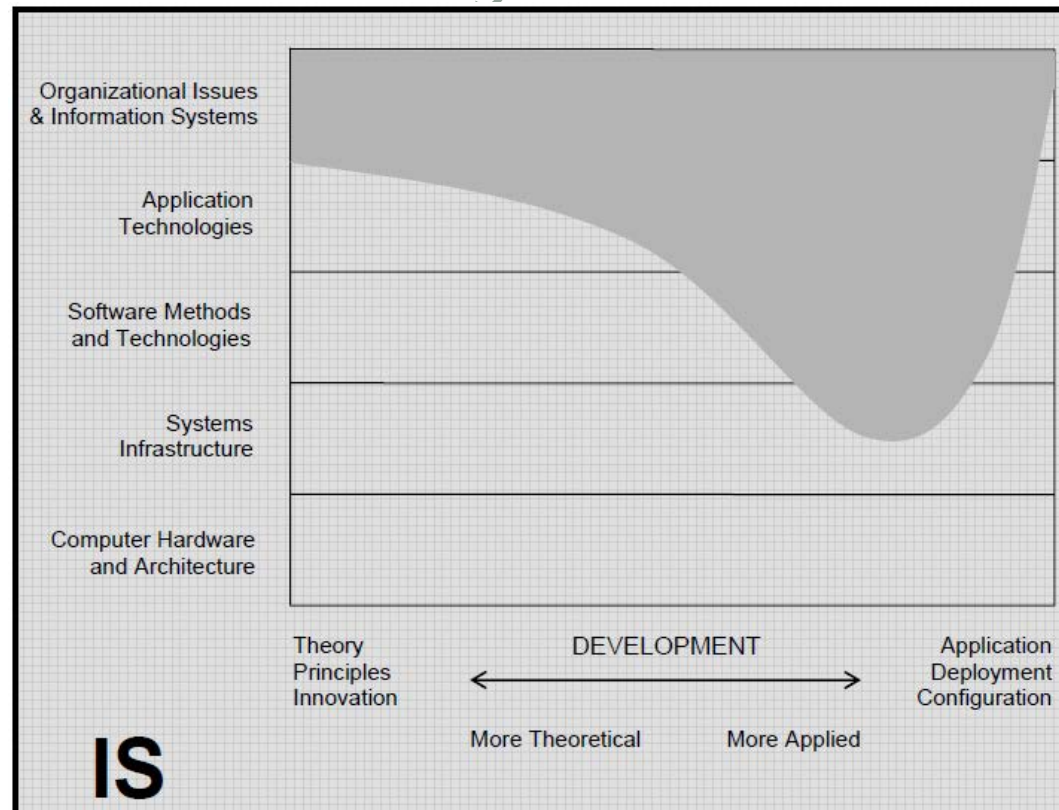
# Computer Engineering



# Computer Science

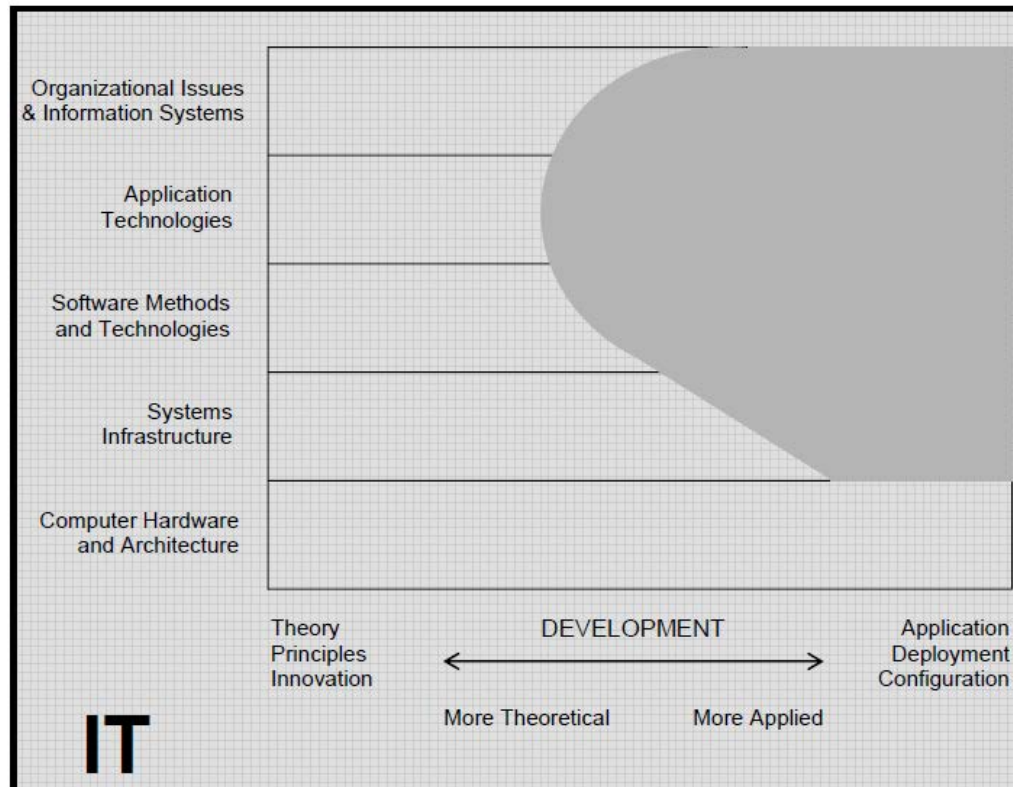


# Information Systems

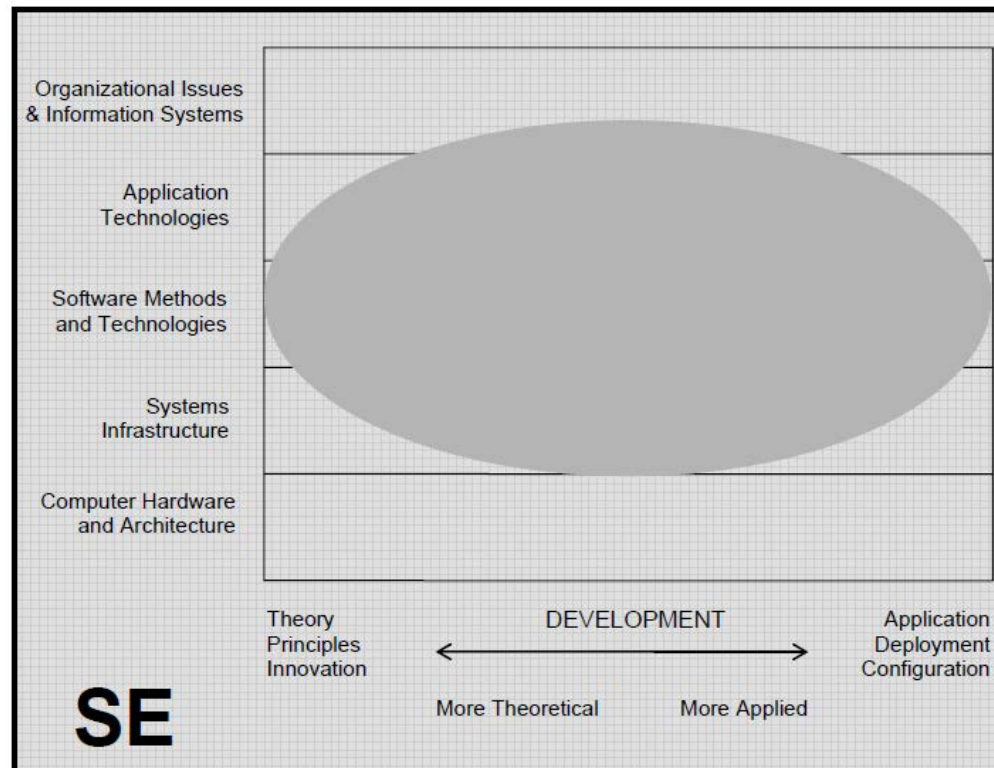




# Information Technology



# Software Engineering



# What is *Engineering*?

The application of science and mathematics by which the properties of matter and the sources of energy in nature are made useful to people (According to Webster Dictionary)



# How to evaluate the Computer Engineering at ITU?



**ABET?**



# Accreditation Board for Engineering and Technology

[www.abet.org](http://www.abet.org)

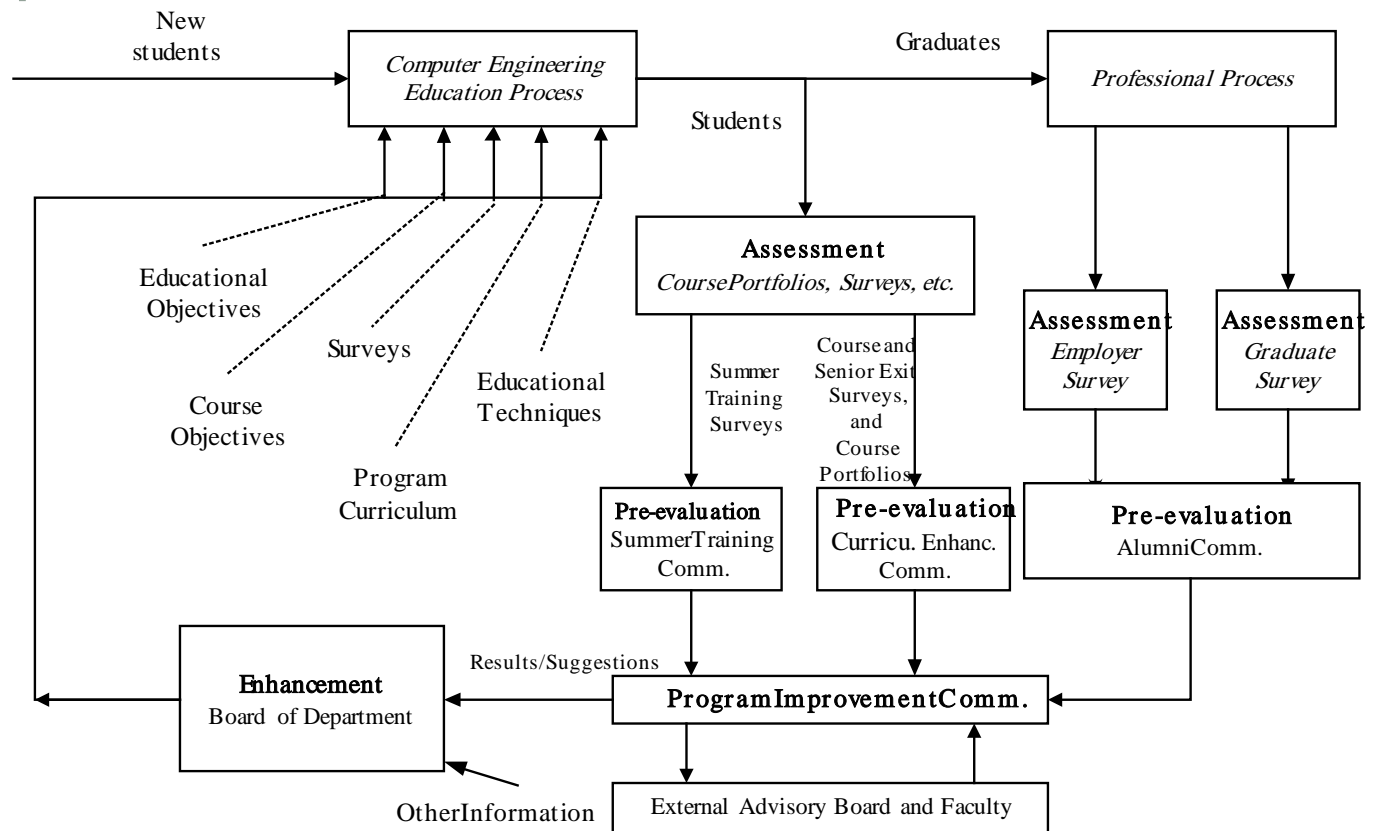


# Mission Statement of Computer Engineering

Providing students with a broad professional education in Computer Engineering and Information Sciences so that they have the knowledge to influence the direction of the field and industrial practice in the current information age, and the skills to continually enhance this knowledge with an inquisitive minded approach and a sense of ethics.

Furthermore, taking an active part in universal projects in all areas of computer engineering and becoming a strong R&D partner in all academic activities.

# Process of Continuous Improvement





# Advisory Board

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Questions?