

# PROGRAMMING LANGUAGES

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İBRAHİM ATLI

# Course Content

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## ➤ Evaluation of Programming Languages

- Overview of language translation,
- Virtual machines,
- Run-time environments.
- Names, bindings and scopes.
- Values, expressions and types.
- Type compatibility and type checking.
- Storage, variables, and commands.
- Procedural abstraction.
- Generic units.

## ➤ Training 2 weeks for each type

# Percentages

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- Python (20%)
  - Matlab (20%)
  - C#, .NET (20%)
  - LISP, Prolog
  - Javascript (20%)
  - Final Exam (20%)
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- No midterm, homeworks will be given for each PL

# Course Web Site

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- Check every week before class
  - Important announcements
  - Homework
  - Updates
  
- [www.ybu.edu.tr/iatli](http://www.ybu.edu.tr/iatli)
  - Under Courses section CENG206

# Introduction

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- Church-Turing hypothesis say all programming languages and computational devices have the same power regarding computability.
- If you can define a computation in one of the universal programming languages, you can define the same computation in any other universal programming language.
- Why do we have so many programming languages?
- Is it desirable to know as much distinct P.L. as possible?

# Course Objective

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- Not to teach specific programming languages.
  - Python, C#, Matlab and Prolog languages are tools of this course
- Studying the common concepts of programming languages
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- What is the measure of quality in a programming language?
- Construct a basis for other topics like
  - compiler design,
  - software engineering,
  - object oriented design,
  - human computer interaction...

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Thanks For Your Attention

Questions?