

# KOLT Python

## Program Information

Ahmet Uysal

Thursday 19<sup>th</sup> December, 2019



**KOÇ  
ÜNİVERSİTESİ**  
OFFICE OF THE VICE PRESIDENT  
FOR ACADEMIC AFFAIRS



**KOÇ  
UNIVERSITY**  
OFFICE OF LEARNING AND TEACHING



1. About  
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2. Team  
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3. Certificate Program  
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4. Statistics  
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5. Future Goals  
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6. Student Reviews  
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# Agenda

**1. About**

**2. Team**

**3. Certificate Program**

**4. Statistics**

**5. Future Goals**

**6. Student Reviews**

## About KOLT Python



- Founded in September 2018 with support of KOLT & VPAA
- Accepted its first 20 students in Spring 2019
- Currently consists of 4 team members & 77 students
- Website: [koltpython.com](http://koltpython.com)

## Goals

- A **safe** learning environment for students from every background.
- Opportunity for the students to develop programming skills focused on their fields or interests.
- A **peer-support** scheme where tutors can experience **every aspect of teaching**: lectures, problem sessions, preparing and evaluating assignments.
- Create high quality and open source educational content.

## Team Members (Fall 2019)



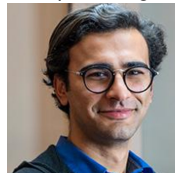
Ahmet Uysal  
Senior Computer Eng.



Gül Sena Altıntaş  
Junior Computer Eng. & Math



Ceren Kocaoğullar  
Senior Computer Eng. & MAVIA



Hasan Can Aslan  
Junior Computer Eng. & ECON

## Advisors



Prof. Barış Tan



Prof. Murat Sözer



Prof. Öznur Özkasap



Prof. Barış Bozkurt



Dr. Banu Yobaş



Dr. Zuhâl Zeybekoğlu

# Python Certificate Program

- 12 weeks long
- Prioritizes **practical** aspects of programming
- 75 min. lecture + 75 min. sections each week
- Attendance is compulsory, active participation is encouraged
- 3-4 assignments: not graded but compulsory, detailed feedback provided

## Curriculum (Fall 2019)

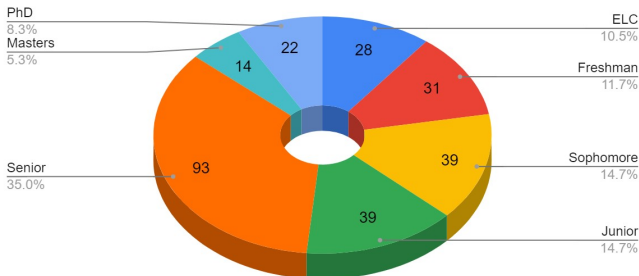
Curriculum is based on courses offered in top universities (MIT, Stanford, etc.) and feedback from our advisors.

Week	Topic
23.09.2019	Program Introduction & Variables, Console I/O, Simple Functions
30.09.2019	Basic Operators & Branching
07.10.2019	Strings, While Loops, Introduction to Lists
14.10.2019	Lists Continued, For Loops
21.10.2019	Functions
28.10.2019	Holiday (Republic Day)
04.11.2019	Mutability, Aliasing and Cloning, Sets, Tuples, Dictionaries
11.11.2019	Error & Exception Handling, File Input and Output
18.11.2019	Example Implementation: Connect Four Game
25.11.2019	Using third-party packages
02.12.2019	Workshop: Creating a personal blog with Django
09.12.2019	Workshop: APIs & Data Visualization



# Spring 2019 Applicant Academic Levels

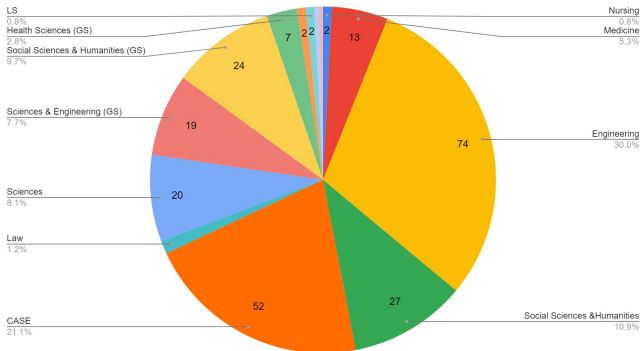
## Year Distribution - Spring 2019



Number of Applicants: **257**

# Spring 2019 Applicant Departments

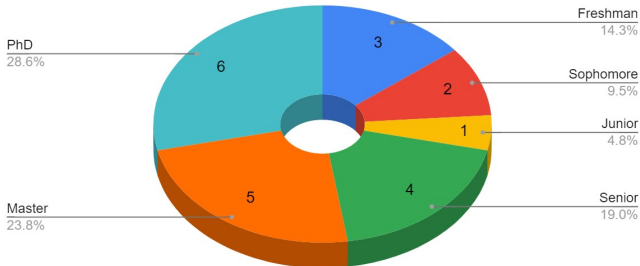
Departments - Spring 2019



Number of Applicants: **257**

# Spring 2019 Participant Academic Levels

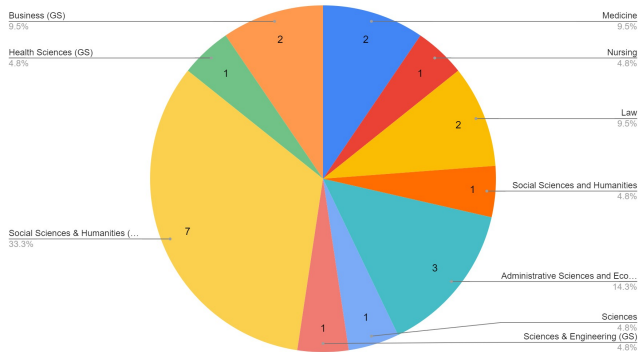
## Year Distribution - Spring 2019 Participants



Number of Participants: **21**

# Spring 2019 Participant Departments

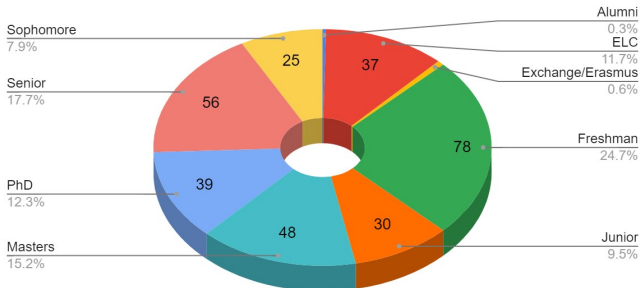
Departments - Spring 2019 Participants



Number of Participants: **21**

# Fall 2019 Applicant Academic Levels

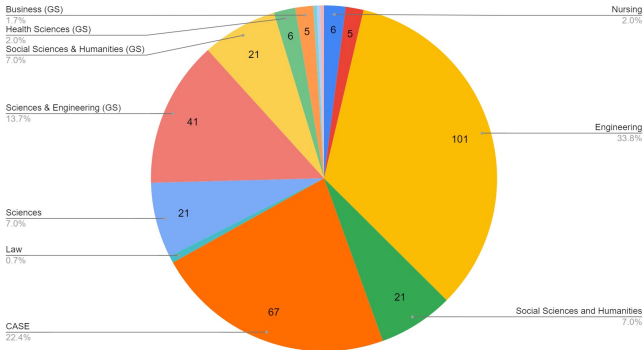
## Year Distribution - Fall 2019



Number of Applicants: **316**

# Fall 2019 Applicant Departments

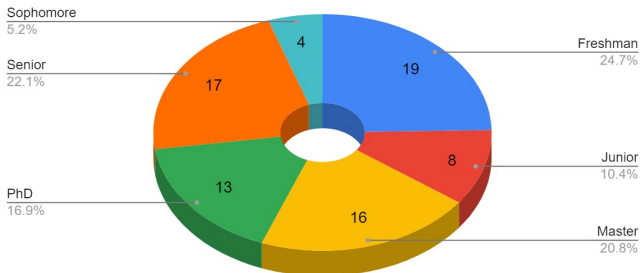
Departments - Fall 2019



Number of Applicants: **316**

# Fall 2019 Participant Academic Levels

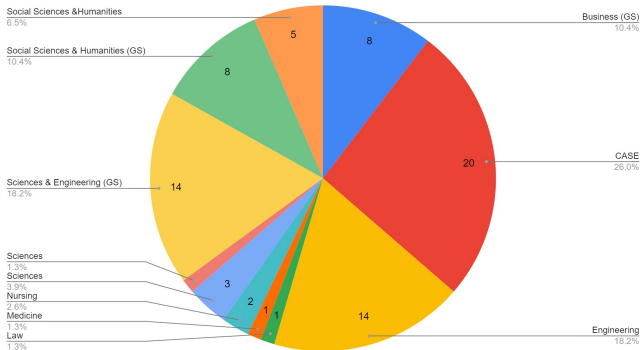
## Year Distribution - Fall 2019 Participants



Number of Participants: **77**

# Fall 2019 Participant Departments

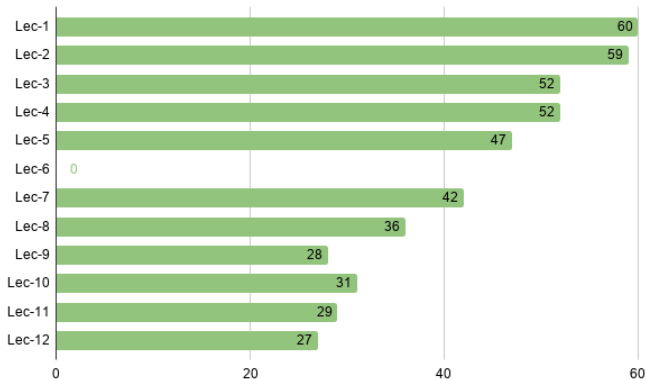
Departments - Fall 2019 Participants



Number of Participants: 77



## Spring 2019 Attendance over Weeks



32 out of 77 students earned the certificate

## Future Goals

Even more emphasis on practical use of Python.

- Revised assignments
- Final project competition & Fair
- Workshops (Open to all KU members)

Increasing one-to-one interaction with students.

- More team members
- Office hours
- Final project guidance

## Advanced & Diversed Curriculum

We have students from diversified majors

- Working with faculty members to create guides on where to focus after fundamentals of Python
- Organizing condensed (1-2 days) workshops on more advanced topics
  - Targeting our alumni & students who already have experience with Python

## Content Creation

All of our content is open source and publicly available.  
For next semesters, we want to

- Record lectures & problem sessions
- Make our content more **accessible** for students with special needs (visually impaired, etc.)
- Create interactive & interesting exercises for our website

# İrem Şot | PhD | Design, Technology & Society



*As a person who caught up in Social Sciences for 10 years, I had several reservations before starting the KOLT Python Program. Apart from lacking any sort of knowledge about computer programming, the mere text-based education that I have obtained in the past years led me to question whether I would have been capable of learning the programming or not. Nevertheless, both the design of the program, and our trainers who allocate their spare time to our learning and employ rather simplistic and easy-to-grasp language made me realize that my thoughts regarding Python were just prejudice. Furthermore, the program is very lucrative in adopting participant oriented approach; lectures and sections are highly interactive, all material and exercise solutions are promptly made available online. This participant-centered approach surely facilitates asking the questions that most of us label as “embarrassing”.*

## Mısra Taşçı | Freshman | School of Medicine



*I'm a medical student and this is my first year. I am very interested in programming and this program is really great for me because it is like a serious course but it is fun and without the stress of exams. Also our instructors are very nice and helpful, and I really love the assignments that they prepare, time really passes quickly when I try doing them. I would love it if there were more programs like this about other subjects that I'm interested in.*

## Petrus J. Gerrits | PhD | Archeology



*The KOLT Python certificate program has been very useful for me so far. I studied Archaeology for my undergraduate and graduate studies and my hope is that with the content of this course I can make use of Python programming more regularly. The instructors are great, they make learning Python understandable, respond quickly to questions and assist whenever needed.*