

# COURSE DETAIL

## PYTHON APPLIED TO COMPUTATIONAL FLUID DYNAMICS

**Country**

Mexico

**Host Institution**

National Autonomous University of Mexico

**Program(s)**

National Autonomous University of Mexico

**UCEAP Course Level**

Graduate

**UCEAP Subject Area(s)**

Physics Mathematics Engineering

**UCEAP Course Number**

203

**UCEAP Course Suffix****UCEAP Official Title**

PYTHON APPLIED TO COMPUTATIONAL FLUID DYNAMICS

**UCEAP Transcript Title**

PYTHON/FLUID DYNAM

**UCEAP Quarter Units**

4.50

**UCEAP Semester Units**

3.00

## Course Description

This course offers a study of the fundamentals of Python3 programming language for scientific computation (computational fluid dynamics). Topics include: basic commands for running python routines in a jupyter environment-- manipulation of files, directories, and processes, parameters of a command in POSIX format, interactive environments, and git; numerical methods for wave field models-- finite differences, finite volume method, and finite element method.

### Language(s) of Instruction

Spanish

### Host Institution Course Number

### Host Institution Course Title

PYTHON APPLIED TO COMPUTATIONAL FLUID DYNAMICS

### Host Institution Campus

CIUDAD UNIVERSITARIA

### Host Institution Faculty

FACULTAD DE CIENCIAS

### Host Institution Degree

### Host Institution Department

INSTITUTO DE CIENCIAS APLICADAS Y TECNOLOGÍA

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