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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