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
TEMAS SELECTOS DE INSTRUMENTACIÓN: PYTHON APLICADO A COMPUTO CIENTIFICO

Host Institution Course Details

Host Institution Campus
CIUDAD UNIVERSITARIA

Host Institution Faculty
FACULTAD DE CIENCIAS

Host Institution Degree

Host Institution Department
INSTITUTO DE CIENCIAS APLICADAS Y TECNOLOGÍA

Course Last Reviewed
2022-2023

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