PROF. RAGUNATHAN RENGASAMY  
Department of Chemical Engineering  
IIT Madras  

PRE-REQUISITES : Knowledge of basic data science algorithms  
INTENDED AUDIENCE : 4th year Engineering Undergraduates  
INDUSTRIES APPLICABLE TO : Honeywell, Abb, Ford, Gyan Data pvt. Ltd.  

COURSE OUTLINE :  
The course aims at equipping participants to be able to use python programming for solving data science problems.  

ABOUT INSTRUCTOR :  
Prior to joining IIT Madras as a Prof. Rengaswamy was a Professor of Chemical Engineering and Co-director of the Process control and Optimization Consortium at Texas Tech University, Lubbock, USA. He was also a Professor and Associate Professor at Clarkson University, USA and an Assistant Professor at IIT Bombay. His major research interests are in the areas of Fault Detection and Diagnosis and Development of Data Science Algorithms for Manufacturing industries.  

COURSE PLAN :  
Week 1&2: Basics of Python, Control structures, Scripts and Functions, Graphs in python, Numpy Pandas Data structures  
Week 3&4: Case study illustration in python using 2-3 ml algorithms.