



PYTHON FOR DATA SCIENCE, WEB AND CORE PROGRAMMING SPECIALIZED STUDIES PROGRAM • ONLINE

Python is an easy to use, open-source and versatile programming language that is especially popular among those learning a programming language for the first time. The use of Python in industry has increased by a factor of 10 since 2005 and is on track to be more popular than the industry leading Java language in just a few years. It is already the number one software package for those teaching introduction to computer science courses. It is concise and easy to read, and can be used for a variety of industry needs including web development, data analytics, core software development and a wide range of scientific and mathematical applications.

Python also has numerous libraries for data manipulation and analysis as well as a very active development community that continually updates and creates new packages. It has been adopted by a wide variety of industries and applications including data science, machine learning, data analytics, predictive analytics, business intelligence and web analytics.

In this short specialized study program students will learn Python programming concepts including programming styles, idioms, libraries, data structures, data retrieval, processing, visualization, networked application program interfaces and databases. Students can then choose from a final course in either Introduction to Python for Data Analysis or Developing Web Services and Accessing Web Data with Python.

