

DAILY ASSESSMENT FORMAT

Date:	23-05-2020	Name:	Neha T
Course:	Signals and Systems	USN:	4AL18EC035
Topic:	1.Fourier series and Fourier Transform 2.Using MatLab and Python	Semester & Section:	4th sem A sec
Github Repository:	Neha-T		

FORENOON SESSION DETAILS

Image of session

Fourier Analysis: Overview
21,659 views • Mar 7, 2020

<https://www.youtube.com/watch?v=spUNpyf58BY>

Fourier Series: Part 1
8,619 views • Mar 8, 2020

https://www.youtube.com/watch?v=tqJ_1oCQE-4

The screenshot shows a YouTube video player with the title "Fourier Series [Matlab]" and 3,333 views. The video content includes a man speaking and a MATLAB script in the background. The script defines a function $f(x)$ and computes its Fourier series coefficients. The output shows the function and its approximation using the first 10 terms of the series.

Fourier Series [Matlab]
3,333 views · Mar 14, 2020

Up next

- The Fourier Transform - Steve Brunton 6.2K views
- Solving the Heat Equation with the Fourier Transform - Steve Brunton 5.4K views
- How To Graph Equations - The Organic Chemistry Tutor 458K views
- The Fast Fourier Transform Algorithm - Steve Brunton 6.5K views
- Fourier Analysis - Steve Brunton
- Simple and Easy Tutorial on FFT Fast Fourier Transform Matlab

Report – Report can be typed or handwritten for up to two pages.

➤ Fourier Transform

- Another coordinate transform to represent data, images, etc
- Discussed about the uses of Fourier Transform and also the History
- Function appropriation
 - ★ To understand Hilbert Space
- Fast Fourier Transform which is simply called as FFT
 - ★ Performed in the complex terms
 - ★ Modern digital communication is built on FFT
- Calculating coefficient at each particular frequency in Fourier Transform
- Discrete Fourier Transform
- Plotting the complex number on the complex plane by using Real and Imaginary parts of number as coordinates

➤ Fourier series

- Can represent the function by the sum of cosines and sines by increasing frequency

- The coefficient can be computed using the integrals (coefficient in the equation of fourier series)

★ how much the inner product function has in the cosine and sine direction

- Inner product function

➤ Complex Fourier series

➤ Fourier Transform using MatLab

- Define a domain
- Define a function
- Compute Fourier series
- Plot amplitudes

➤ Fourier series using Python

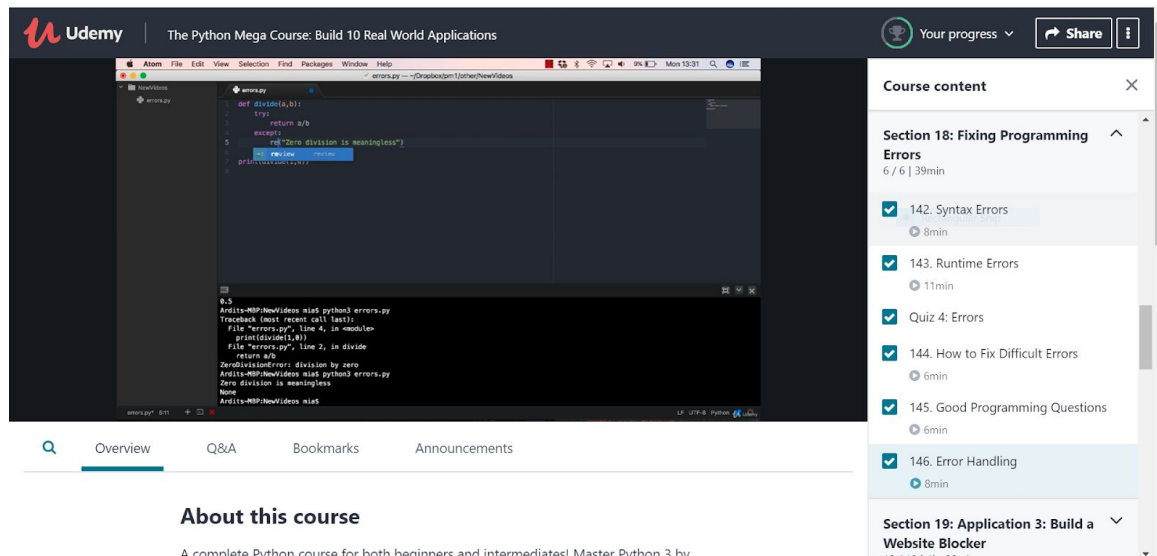
➤ Fourier series and Gibbs phenomena using MatLab

Date: 23-05-2020
Course: Python
Topic: 1.Fixing Programming Errors
2.Build a Website Blocker

Name: Neha T
USN: 4AL18EC035
Semester 4th sem A sec
& Section:

AFTERNOON SESSION DETAILS

Image of session



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Course content

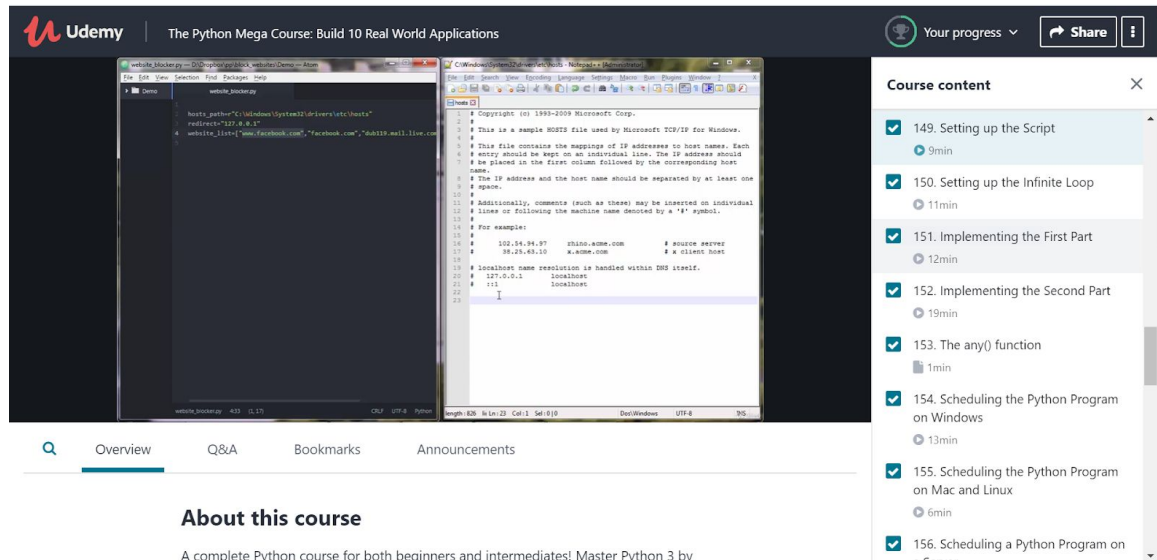
Section 18: Fixing Programming Errors
6 / 6 | 39min

- ✓ 142. Syntax Errors 8min
- ✓ 143. Runtime Errors 11min
- ✓ Quiz 4: Errors
- ✓ 144. How to Fix Difficult Errors 6min
- ✓ 145. Good Programming Questions 6min
- ✓ 146. Error Handling 8min

Section 19: Application 3: Build a Website Blocker

About this course

A complete Python course for both beginners and intermediates! Master Python 3 by



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Course content

- ✓ 149. Setting up the Script 9min
- ✓ 150. Setting up the Infinite Loop 11min
- ✓ 151. Implementing the First Part 12min
- ✓ 152. Implementing the Second Part 19min
- ✓ 153. The any() function 1min
- ✓ 154. Scheduling the Python Program on Windows 13min
- ✓ 155. Scheduling the Python Program on Mac and Linux 6min
- ✓ 156. Scheduling a Python Program on Linux

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➤ **Fixing Programming error**

- **Syntax error - which is the most common error in any program. They arise when the Python parser is unable to understand a line of code.**
- **Runtime error - A runtime error does not occur until the program is actually run. A runtime error happens when Python understands what we are saying, but runs into trouble when following our instruction**
- **The simple formula to fix an error is that**
 - ★ **Start with reading the error from the beginning. The line tells you the location of the error**
 - ★ **Next look at the error type, In case the error type is a SyntaxError**
 - ★ **Look at the details of the error**
 - ★ **Use your logic**
- **Error Handling**

➤ **Build a Website Blocker**

- **Block some certain websites which can distract the user during the specified amount of time**
- **Also briefed us about how the output will look like**
- **Setting up the Script, Infinite loop**
- **The any() function returns true if an item in an iterable is true, otherwise it returns false. If the iterable object is empty, the any() function will return false**