

# DAILY ASSESSMENT FORMAT

<b>Date:</b>	<b>05-06-2020</b>	<b>Name:</b>	<b>Neha T</b>
<b>Course:</b>	<b>Network Theory</b>	<b>USN:</b>	<b>4AL18EC035</b>
<b>Topic:</b>	<b>Open source circuit simulation</b>	<b>Semester &amp; Section:</b>	<b>4<sup>th</sup> Sem A Sec</b>
<b>Github Repository:</b>	<b>Neha-T</b>		

## FORENOON SESSION

### Image of the session

**Series RLC Circuit**

Firstly, let us define what we already know about series RLC circuits.

- Inductive reactance:  $X_L = 2\pi fL = \omega L$
- Capacitive reactance:  $X_C = \frac{1}{2\pi fC} = \frac{1}{\omega C}$
- When  $X_L > X_C$  the circuit is Inductive
- When  $X_C > X_L$  the circuit is Capacitive
- Total circuit reactance =  $X_T = X_L - X_C$  or  $X_C - X_L$
- Total circuit impedance =  $Z = \sqrt{R^2 + X_T^2} = R + jX$

**Parallel RLC Circuit Analysis**

The Parallel RLC Circuit is the exact opposite to the series circuit we looked at in the previous tutorial although some of the previous concepts and equations still apply.

However, the analysis of a parallel RLC circuits can be a little more mathematically difficult than for series RLC circuits so in this tutorial about parallel RLC circuits only pure components are assumed in this tutorial to keep things simple.

This time instead of the current being common to the circuit components, the applied voltage is now common to all so we need to find the individual branch currents through each element. The total impedance,  $Z$  of a parallel RLC circuit is calculated using the current of the circuit similar to that for a DC parallel circuit, the difference this time is that admittance is used instead of impedance. Consider the parallel RLC circuit below.

**Read more Tutorials in AC Circuits**

1. AC Waveform and AC Circuit Theory
2. Sinusoidal Waveforms
3. Phase Difference and Phase Shift
4. Phasor Diagrams and Phasor Algebra
5. Complex Numbers and Phasors
6. AC Resistance and Impedance
7. AC Inductance and Inductive Reactance
8. AC Capacitance and Capacitive Reactance
9. Series RLC Circuit Analysis
10. **Parallel RLC Circuit Analysis**
11. Series Resonance Circuit
12. Parallel Resonance Circuit
13. RMS Voltage Tutorial
14. Average Voltage Tutorial
15. Reactive Power
16. Harmonics
17. Passive Components in AC Circuits

➤ **Online Open source circuit simulation**

- **Series RLC**
- **Parallel RLC**
- **RL and RC series circuits**
- **Frequency response**

➤ **Make interference of the response of the circuit for the**

- **Change in Frequency**
- **Change in Parameter values (RLC)**

<b>Date:</b>	<b>05-06-2020</b>	<b>Name:</b>	<b>Neha T</b>
<b>Course:</b>	<b>Python</b>	<b>USN:</b>	<b>4AL18EC035</b>
<b>Topic:</b>	<b>Building a Geocoder Web Service</b>	<b>Semester &amp; Section:</b>	<b>4<sup>th</sup> Sem A Sec</b>
<b>Github Repository:</b>	<b>Neha-T</b>		

## AFTERNOONNOON SESSION

### Image of the session

**UdeMy** The Python Mega Course: Build 10 Real World Applications

**Course content**

- Section 33: Application 11: Project Exercise on Building a Geocoder Web Service
  - 269. Student Project - How The Output Should Look Like (8min)
  - 270. Solution, Part 1 (16min)
  - 271. Solution, Part 2 (6min)
  - 272. End of the Course (1min)
- Section 34: Legacy Exercises (0 / 20 | 0min)
- Section 35: Offers for my Other

**About this course**

A complete Python course for both beginners and intermediates! Master Python 3 by making 10 amazing Python apps.

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**Course content**

- Section 33: Application 11: Project Exercise on Building a Geocoder Web Service
  - 269. Student Project - How The Output Should Look Like (8min)
  - 270. Solution, Part 1 (16min)
  - 271. Solution, Part 2 (6min)
  - 272. End of the Course (1min)
- Section 34: Legacy Exercises (0 / 20 | 0min)
- Section 35: Offers for my Other Python Courses (0 / 1 | 1min)

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**Course content**

Data Collector Web App with PostGr...  
11 / 11 | 2hr 47min

Section 33: Application 11: Project Exercise on Building a Geocoder We...  
4 / 4 | 30min

- 269. Student Project - How The Output Should Look Like  
8min [Resources](#)
- 270. Solution, Part 1  
16min
- 271. Solution, Part 2  
6min
- 272. End of the Course  
1min

Section 34: Legacy Exercises  
0 / 20 | 0min

Section 35: Offers for my Other Python Courses  
0 / 1 | 1min

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## ➤ Building a Geocoder Web Service

- Under this session
  - ❖ Overview of the Output
  - ❖ Solution – Part 1
  - ❖ Solution – Part 2

Were discussed

- Basically, it is a project-based topic where in Output of the project is briefed