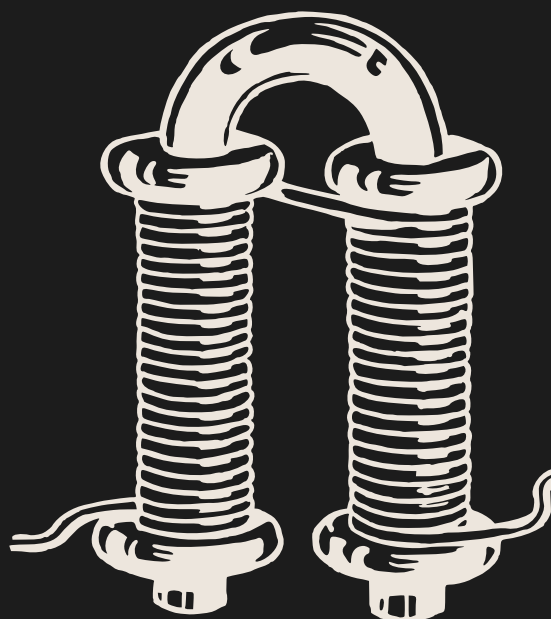


Course Catalogue

Complete Guide on Transformers

Make your Electrical Transformer concepts crystal clear! Learn everything about Transformer in easiest way!



Introduction to the Course



Transformers are probably one of the most useful invention in electrical engineering. Transformer can raise or lower voltage in AC circuits, it can also isolate one circuit from another. Not only this, but because of transformer only, we could transmit power over a long distance and distribute it safely to factories or homes.

We cannot imagine power system without transformer. Transmission of electricity over such a long distance is only possible because of transformer. And hence, if you are an electrical engineer, you must know about the transformer. Its not an optional thing to know but, a mandatory one! You are not just learning any other device but, the most important equipment in the whole electrical engineering.

Now, if you think, concepts of transformer are difficult to understand, then this course will prove you wrong. By the end of this course, you will not only understand the transformer clearly but also, you'll develop an interest in electrical machines. The course in designed and organised in such a way that, it unfolded every concepts at the right time which makes understanding very very easy and interesting.

The primary focus of this course is to clear the transformer related concepts.

What you'll learn?

Upon completion of this course, you'll have ..

- Complete understanding of properties of ideal transformer
- Understanding of how ideal transformer behaves with and without load
- Information on voltage, turns, current & impedance ratio
- Difference between ideal & practical transformer
- Complete understanding of behaviour practical transformer
- Knowledge of equivalent circuit of transformer
- Complete information on efficiency, losses and construction of transformer
- Complete understanding of three phase transformer & different connections, etc

Detailed course content is given below.



Course suitable for

- Diploma Students
- BE or B-tech Students
- ME or M-tech students
- Teachers
- Student's preparing for competitive exams

What you'll get?



30+ Recorded lectures



Important diagrams



PDFs



MCQs for practice



Lifetime access



View on mobile/laptop/desktop



Chat group for doubts



Offline download option



Course Language : English

Course Instructor

Gaurav J aka TheElectricalGuy, is an Electrical Engineer with years of experience in the Power Transmission sector. He takes care of High & Extra high voltage products. He has been creating content for electrical engineers for more than 5 years now. He also runs a successful YouTube channel with thousands of subscribers & millions of views.





Note -

- For Part 2 & Part 3, Videos will be posted on weekly basis
- Some topics may be added later on as and when required

Part 1 : Ideal Transformer

- Learning Objective
- Voltage Induced in a coil
- Applied & Induced voltage
- A Basic Transformer
- Polarity of Transformer
- Ideal Transformer on no-load
- Voltage & turns Ratio
- Ideal Transformer on Load & Current ratio
- Impedance Ratio
- Shifting Impedances
- Important Diagrams
- Test 1

Part 2 : Practical Transformer

- Learning Objective
- Ideal vs Practical transformer
- Practical Transformer on no load
- Practical Transformer on load
- Primary & secondary leakage reactance
- Equivalent circuit of practical transformer
- Simplifying the equivalent circuit
- Standard terminal marking & Polarity
- Transformer taps
- Losses in Transformer
- Voltage Regulation
- Efficiency of transformer
- Parallel operation of transformers
- Construction of Transformer
- Cooling of Transformer
- Important Diagram
- Test 2

Part 3 : Three Phase Transformer

- Learning Objective
- Bank of three single phase Transformers
- Delta-Delta connected Transformer
- Delta - wye connected transformer
- Wye-Delta connected transformer
- Wye-Wye connected transformer
- Open delta connection
- Three phase Transformer
- Test 3

How to join the course?

TheElectricalGuy

Follow these steps to join the course



Download "TheElectricalGuy" mobile app (download links given below)



Login securely using your mobile number



Goto "Store" section in the app



Look for the Transformer course



Click on "Buy Now" to join the course

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