

# IE10 Transmission Line

EE303	Transmission Line	2
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## Part 1 Lesson

### Transmission Lines

<u>EE303</u>	<u>Transmission Line</u>
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G042+IS71

Page 285 to 307 of [http://www.filefactory.com/file/cf9bf8f/n/Video\\_Lessons.pdf](http://www.filefactory.com/file/cf9bf8f/n/Video_Lessons.pdf)

### Transmission Line

G042 Lesson 1-Transmission line introduction.zip

<http://youtu.be/DrOOgcKeaL4>

[http://www.filefactory.com/file/c0bf370/n/G042\\_Lesson\\_1-Transmission\\_line\\_introduction.zip](http://www.filefactory.com/file/c0bf370/n/G042_Lesson_1-Transmission_line_introduction.zip)

G042 Lesson 2-DC Line+Line reflection.zip

<http://youtu.be/jvVdecp-ck>

[http://www.filefactory.com/file/c0bf4eb/n/G042\\_Lesson\\_2-DC\\_Line\\_Line\\_reflection.zip](http://www.filefactory.com/file/c0bf4eb/n/G042_Lesson_2-DC_Line_Line_reflection.zip)

G042 Lesson 3-Power line calculation.zip

<http://youtu.be/3TgVt67DhvY>

<http://youtu.be/QT6aqaM7a0>

<http://youtu.be/WxjQlkdJjQ8>

[http://www.filefactory.com/file/c0bf433/n/G042\\_Lesson\\_3-Power\\_line\\_calculation.zip](http://www.filefactory.com/file/c0bf433/n/G042_Lesson_3-Power_line_calculation.zip)

G042 Lesson 4-Line model+Economic aspect.zip

[http://youtu.be/1HRdGZXp\\_-w](http://youtu.be/1HRdGZXp_-w)

[http://www.filefactory.com/file/c0bf459/n/G042\\_Lesson\\_4-Line\\_model\\_Economic\\_aspect.zip](http://www.filefactory.com/file/c0bf459/n/G042_Lesson_4-Line_model_Economic_aspect.zip)

G042 Lesson 5-Time value of money+Line reflection.zip

<http://youtu.be/n9mupLQWANY>

<http://youtu.be/YdfiX2gL-3c>

[http://www.filefactory.com/file/c0bf5a9/n/G042\\_Lesson\\_5-Time\\_value\\_of\\_money\\_Line\\_reflection.zip](http://www.filefactory.com/file/c0bf5a9/n/G042_Lesson_5-Time_value_of_money_Line_reflection.zip)

## G042 Lesson 6-Line matching+Wave guide.zip

[http://youtu.be/1WyP5\\_Cek40](http://youtu.be/1WyP5_Cek40)

[http://www.filefactory.com/file/c0bf5dd/n/G042\\_Lesson\\_6-Line\\_matching\\_Wave\\_guide.zip](http://www.filefactory.com/file/c0bf5dd/n/G042_Lesson_6-Line_matching_Wave_guide.zip)

## G042 Lesson 7-Wave guide.zip

<http://youtu.be/BuGtjZ3QBxk>

<http://youtu.be/pftevsnb10w>

[http://www.filefactory.com/file/c0bf519/n/G042\\_Lesson\\_7-Wave\\_guide.zip](http://www.filefactory.com/file/c0bf519/n/G042_Lesson_7-Wave_guide.zip)

## G042 Lesson 8-Microstrip line.zip

<http://youtu.be/eINq1kKuiec>

[http://www.filefactory.com/file/c0bf545/n/G042\\_Lesson\\_8-Microstrip\\_line.zip](http://www.filefactory.com/file/c0bf545/n/G042_Lesson_8-Microstrip_line.zip)

## G042 Lesson 9-Per unit value of line.zip

<http://youtu.be/66Y-Lm3EntI>

[http://www.filefactory.com/file/c0bf576/n/G042\\_Lesson\\_9-Per\\_unit\\_value\\_of\\_line.zip](http://www.filefactory.com/file/c0bf576/n/G042_Lesson_9-Per_unit_value_of_line.zip)

## G042 Lesson 10-Line constants.zip

<http://youtu.be/2XYnZZ-zXII>

[http://www.filefactory.com/file/c3eb4d1/n/G042\\_Lesson\\_10-Line\\_constants.zip](http://www.filefactory.com/file/c3eb4d1/n/G042_Lesson_10-Line_constants.zip)

## G042 Lesson 11-Smith chart.zip

<http://youtu.be/dv-NQh4vIrg>

<http://youtu.be/KfM8XZd9Wqc>

<http://youtu.be/3NYVQvW8-Nk>

<http://youtu.be/5qBwLsbtfTA>

[http://youtu.be/ViamcvqAy\\_I](http://youtu.be/ViamcvqAy_I)

[http://youtu.be/j\\_nx9n7mGec](http://youtu.be/j_nx9n7mGec)

<http://youtu.be/d53B3-zV2ec>

[http://www.filefactory.com/file/c0bf6ef/n/G042\\_Lesson\\_11-Smith\\_chart.zip](http://www.filefactory.com/file/c0bf6ef/n/G042_Lesson_11-Smith_chart.zip)

## G042 Lesson 12-Four terminals network.zip

<http://youtu.be/HCO4P1qrPbA>

[http://www.filefactory.com/file/c0bf60b/n/G042\\_Lesson\\_12-Four\\_terminals\\_network.zip](http://www.filefactory.com/file/c0bf60b/n/G042_Lesson_12-Four_terminals_network.zip)

## G042 Lesson 13-Exercises.zip

<http://youtu.be/LeyJf1PhpCY>

[http://www.filefactory.com/file/c0bf61c/n/G042\\_Lesson\\_13-Exercises.zip](http://www.filefactory.com/file/c0bf61c/n/G042_Lesson_13-Exercises.zip)

### **The links contain the following lessons**

G042 Lesson 1-Transmission line introduction  
G042 Lesson 2-DC Line+Line reflection  
G042 Lesson 3-Power line calculation  
G042 Lesson 4-Line model+Economic aspect  
G042 Lesson 5-Time value of money+Line reflection  
G042 Lesson 6-Line matching+Wave guide  
G042 Lesson 7-Wave guide  
G042 Lesson 8-Microstrip line  
G042 Lesson 9-Per unit value of line  
G042 Lesson 10-Line constants  
G042 Lesson 11-Smith chart  
G042 Lesson 12-Four terminals network  
G042 Lesson 13-Exercises

## [Transmission line-G042.zip](#)

[http://www.filefactory.com/file/c0b7dad/n/Transmission\\_line-G042.zip](http://www.filefactory.com/file/c0b7dad/n/Transmission_line-G042.zip)

### **Exercise**

Do UEENEEG042 Page 147 to 157 of the following link

[http://www.filefactory.com/file/c0b7da3/n/Advanced\\_Diploma\\_in\\_Electrical\\_Engineering\\_Exercises.zip](http://www.filefactory.com/file/c0b7da3/n/Advanced_Diploma_in_Electrical_Engineering_Exercises.zip)

## **Part 2 References**

## **Part 3 Practical**

### **4.Power System Practicals**

**Circuit Connection Assessment Number 4.1 Power Practical CT PT Ratio Measurement**

<http://www.filefactory.com/file/798ausrs1m6p/n/4.1.doc>

<http://www.filefactory.com/file/57e2e172is2v/n/4.1.xls>

<http://www.filefactory.com/file/798ausrs1m6p/n/4.1.doc>

[http://www.filefactory.com/file/c4779istkit/n/Power\\_Practical-CT\\_PT\\_Ratio\\_measurement.pdf](http://www.filefactory.com/file/c4779istkit/n/Power_Practical-CT_PT_Ratio_measurement.pdf)

### **Circuit Connection Assessment Number 4.3 Power Practical-UG Cable capacitance test**

<http://www.filefactory.com/file/4j2n7y7bf97x/n/4.8.doc>

<http://www.filefactory.com/file/5b9oxsvj9xnb/n/4-8.pdf>

#### **UG Cable capacitance test**

[http://www.filefactory.com/file/3noyqi3n1zjh/n/Power\\_Practical-G015-UG\\_Cable\\_capacitance\\_test\\_pdf](http://www.filefactory.com/file/3noyqi3n1zjh/n/Power_Practical-G015-UG_Cable_capacitance_test_pdf)

### **Circuit Connection Assessment Number 4.4 Power Practical-Voltage profile chart**

[http://www.filefactory.com/file/1iz5ji67vspn/n/4\\_9.xls](http://www.filefactory.com/file/1iz5ji67vspn/n/4_9.xls)

[http://www.filefactory.com/file/3inaw8r1nvol/n/4\\_9.doc](http://www.filefactory.com/file/3inaw8r1nvol/n/4_9.doc)

<http://www.filefactory.com/file/3j63fse42vzb/n/4-9.pdf>

[http://www.filefactory.com/file/6u4eb773sext/n/Power\\_Practical-G015-Voltage\\_profile\\_chart\\_pdf](http://www.filefactory.com/file/6u4eb773sext/n/Power_Practical-G015-Voltage_profile_chart_pdf)

### **Circuit Connection Assessment Number 4.5 Power Practical-Line air capacitance test**

#### **Line air capacitance test**

<http://www.filefactory.com/file/37uh3x1uj3d7/n/4-3.pdf>

[http://www.filefactory.com/file/4011j0tou8mx/n/4\\_3.doc](http://www.filefactory.com/file/4011j0tou8mx/n/4_3.doc)

[http://www.filefactory.com/file/2cysmkof0a5t/n/Power\\_Practical-Line\\_air\\_capacitance\\_test\\_pdf](http://www.filefactory.com/file/2cysmkof0a5t/n/Power_Practical-Line_air_capacitance_test_pdf)

### **Circuit Connection Assessment Number 4.6 Power Practical-Line Insulator Capacitance Measurement**

### **Circuit Connection Assessment Number 4.2 Power Practical-OH Insulator capacitance**

#### **Line Insulator Capacitance Measurement .zip**

[http://powersemester2.zoomshare.com/files/Line\\_Insulator\\_Capacitance\\_Measurement\\_.zip](http://powersemester2.zoomshare.com/files/Line_Insulator_Capacitance_Measurement_.zip)

<http://www.filefactory.com/file/1zjy9yt8hlqn/n/4-5.pdf>

[http://www.filefactory.com/file/4tc3gi51b2yv/n/4\\_5.doc](http://www.filefactory.com/file/4tc3gi51b2yv/n/4_5.doc)

### **Circuit Connection Assessment Number 4.7 Power Practical-Real power, reactive power, apparent power**

[3 ph power](#)

[Connection of V I F PF Meter](#)

[Reactive power](#)

[http://www.filefactory.com/file/7kx9i3f2mx6n/n/4-2\\_pdf](http://www.filefactory.com/file/7kx9i3f2mx6n/n/4-2_pdf)

[http://www.filefactory.com/file/nsdk910ui4f/n/4\\_2\\_doc](http://www.filefactory.com/file/nsdk910ui4f/n/4_2_doc)

[http://www.filefactory.com/file/7kx9i3f2mx6n/n/4-2\\_pdf](http://www.filefactory.com/file/7kx9i3f2mx6n/n/4-2_pdf)

[http://www.filefactory.com/file/nsdk910ui4f/n/4\\_2\\_doc](http://www.filefactory.com/file/nsdk910ui4f/n/4_2_doc)

[http://www.filefactory.com/file/5w7jcn920kn9/n/Power\\_Practical-Real power reactive power apparent power pdf](http://www.filefactory.com/file/5w7jcn920kn9/n/Power_Practical-Real_power_reactive_power_apparent_power_pdf)

### **Circuit Connection Assessment Number 4.8 Power Practical-Tr Polarity OCT SCT**

[TrPolarity OCT SCT](#)

[http://www.filefactory.com/file/2hidr69inf67/n/4\\_12\\_doc](http://www.filefactory.com/file/2hidr69inf67/n/4_12_doc)

[http://www.filefactory.com/file/5s68gn2m8lfr/n/4-12\\_pdf](http://www.filefactory.com/file/5s68gn2m8lfr/n/4-12_pdf)

[http://www.filefactory.com/file/5gcxv439m5in/n/Power\\_Practical-TrPolarity\\_OCT\\_SCT\\_pdf](http://www.filefactory.com/file/5gcxv439m5in/n/Power_Practical-TrPolarity_OCT_SCT_pdf)

[Auto Tr Test](#)

### **Circuit Connection Assessment Number 3-4 Over Current Relay**

[Over current relay test](#)

[Relay Trade Reference](#)

[CT Ratio](#)

[http://www.filefactory.com/file/1ufyhhdtxvnd/n/Practical\\_Semester\\_1\\_A\\_pdf](http://www.filefactory.com/file/1ufyhhdtxvnd/n/Practical_Semester_1_A_pdf)

[http://www.filefactory.com/file/6fhwq8kenzx/n/3-4\\_pdf](http://www.filefactory.com/file/6fhwq8kenzx/n/3-4_pdf)

[http://www.filefactory.com/file/2ncfb8i5jlh/n/3\\_4\\_xls](http://www.filefactory.com/file/2ncfb8i5jlh/n/3_4_xls)

[http://www.filefactory.com/file/n2vd5iew8ob/n/3\\_4\\_doc](http://www.filefactory.com/file/n2vd5iew8ob/n/3_4_doc)

### **Circuit Connection Assessment Number 3-5 Comparing AC and DC system**

[http://www.filefactory.com/file/1ufyhhtxvnd/n/Practical\\_Semester\\_1\\_A\\_pdf](http://www.filefactory.com/file/1ufyhhtxvnd/n/Practical_Semester_1_A_pdf)

[http://www.filefactory.com/file/2w77umiyif33/n/3\\_5\\_xls](http://www.filefactory.com/file/2w77umiyif33/n/3_5_xls)

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[http://www.filefactory.com/file/dn69z51p0m7/n/3-5\\_pdf](http://www.filefactory.com/file/dn69z51p0m7/n/3-5_pdf)

### **Circuit Connection Assessment Number 3-9 Effect of transformer on power line**

[http://www.filefactory.com/file/1ufyhhtxvnd/n/Practical\\_Semester\\_1\\_A\\_pdf](http://www.filefactory.com/file/1ufyhhtxvnd/n/Practical_Semester_1_A_pdf)

[Tr effect on line loss](#)

[http://www.filefactory.com/file/1otej68edvjx/n/3\\_9\\_xls](http://www.filefactory.com/file/1otej68edvjx/n/3_9_xls)

[http://www.filefactory.com/file/6d9b519ms1cj/n/3\\_9\\_doc](http://www.filefactory.com/file/6d9b519ms1cj/n/3_9_doc)

[http://www.filefactory.com/file/71uzi338gzqt/n/3-9\\_pdf](http://www.filefactory.com/file/71uzi338gzqt/n/3-9_pdf)

### **Circuit Connection Assessment Number 3-10 Tee and Pi Equivalent Line**

[http://www.filefactory.com/file/1ufyhhtxvnd/n/Practical\\_Semester\\_1\\_A\\_pdf](http://www.filefactory.com/file/1ufyhhtxvnd/n/Practical_Semester_1_A_pdf)

[http://www.filefactory.com/file/1pyk08zwbib1/n/3\\_10\\_doc](http://www.filefactory.com/file/1pyk08zwbib1/n/3_10_doc)

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HT\_Line\_Design.

Capacitance\_Effect\_on\_Long\_Line

Capacitive\_load\_effect\_on\_long\_line

Load\_Centre