GE4 Power System Operation

EE205	Electrical Power System

Part 1-Lecture

G015(AG)Lesson 1-Stability.zip

http://youtu.be/fUyNqcXtBXg

http://www.filefactory.com/file/c0bba38/n/G015_AG_Lesson_1-Stability.zip

G015(AG)Lesson 2-Generator load sharing.zip

http://youtu.be/A-t7XH4rK4M

http://youtu.be/OTsis_KIRuk

http://youtu.be/8j1nD9nY2hU

http://www.filefactory.com/file/c0bbbc8/n/G015_AG_Lesson_2-Generator_load_sharing.zip

G015(AG)Lesson 3-Power Flow.zip

http://youtu.be/0OzT4Pol-Jc

http://youtu.be/fK0wcaTY_rw

http://www.filefactory.com/file/c386bf4/n/G015_AG_Lesson_3-Power_Flow.zip

G015(AG)Lesson 4-IP based system.zip

http://youtu.be/ve5O8K9fL7k

http://www.filefactory.com/file/c386b23/n/G015(AG)Lesson_4-IP_based_system.zip

G015(AG)Lesson 5-Surge in power system.zip

http://youtu.be/6WkezTcOzX4

http://www.filefactory.com/file/c0bbdce/n/G015_AG_Lesson_5-Surge_in_power_system.zip

G015(AG)Lesson 6-CTPT Harmonic filter.zip

http://youtu.be/Uy7q9SsaOYs

http://www.filefactory.com/file/c0bbdf6/n/G015_AG_Lesson_6-CTPT_Harmonic_filter.zip

G015(AG)Lesson 7-Short circuit in alternator.zip

http://youtu.be/b-46Kvn8kJI

http://www.filefactory.com/file/c0bbd17/n/G015_AG_Lesson_7-Short_circuit_in_alternator.zip

G015(AG)Lesson 8-Corona.zip

http://youtu.be/XYGRAWOqzsc

http://www.filefactory.com/file/c0bbea2/n/G015_AG_Lesson_8-Corona.zip

G015(AG)Lesson 9-Power surge.zip

http://youtu.be/uzFS-otIn-g

http://youtu.be/IsZ_ccy630w

http://www.filefactory.com/file/c0bbe59/n/G015_AG_Lesson_9-Power_surge.zip

G015(AG)Lesson_10-Static_Var_Compensation.zip

http://youtu.be/y-of5oLojCU

http://www.filefactory.com/file/c0bbe89/n/G015(AG)Lesson_10-Static_Var_Compensation.zip

G015(AG)Lesson 11-PF Control+Fuel cell.zip

http://youtu.be/AXbCcoQeLns

http://www.filefactory.com/file/c0bbf35/n/G015_AG_Lesson_11-PF_Control_Fuel_cell.zip

G015(AG)Lesson_12-Exercises.zip

http://youtu.be/nRGScOH9aSM

http://www.filefactory.com/file/c0bbf6f/n/G015(AG)Lesson_12-Exercises.zip

Electrical Power Systems II

EE118	Electrical Energy Supply System

G037+G038+G039 Part 1/2/3+IS69

Page 232 to 270 of http://www.filefactory.com/file/cf9bf8f/n/Video_Lessons.pdf

Power System (2)

G037+G038+G039 Lesson 1-Power Flow.zip

http://youtu.be/mzwGGXRTtvw

http://www.filefactory.com/file/c0bb2a3/n/G037_G038_G039_Lesson_1-Power_Flow.zip

G037+G038+G039 Lesson 2-Site Earthing.zip

http://youtu.be/PATkXVBF9kc

http://youtu.be/H4Dj1K238BE

http://www.filefactory.com/file/c0bb244/n/G037_G038_G039_Lesson_2-Site_Earthing.zip

G037+G038+G039 Lesson 3-Power System Control Equipments.zip

http://youtu.be/JJczbYVWOoI

http://www.filefactory.com/file/c0bced7/n/G037_G038_G039_Lesson_3-Power_System_Control_Equipments.zip

G037+G038+G039 Lesson 4-Auxiliary System+Harmonic.zip

http://youtu.be/5mDNHGFLA0c

http://www.filefactory.com/file/c0bb3c3/n/G037_G038_G039_Lesson_4-Auxiliary_System_Harmonic.zip

G037+G038+G039 Lesson 5-Harmonic.zip

http://youtu.be/n41q4Rmz2p0

http://youtu.be/8CelGV5AElk

http://www.filefactory.com/file/c386dbc/n/G037+G038+G039_Lesson_5-Harmonic.zip

G037+G038+G039 Lesson 6-Harmonic Calculation.zip

http://youtu.be/NHSzu6HkOgI

http://youtu.be/fSLrPIC6Mho

http://www.filefactory.com/file/c39bd4a/n/G037_G038_G039_Lesson_6-Harmonic_Calculation.zip

G037+G038+G039 Lesson 7-Synchronous Generator Loading.zip

:http://youtu.be/jv1q7Mtg7Gs

http://www.filefactory.com/file/c39be2f/n/G037_G038_G039_Lesson_7-Synchronous_Generator_Loading.zip

G037+G038+G039 Lesson 8-Turbine Control+Power Line Earthing.zip

http://youtu.be/0CvgkmDE3Kw

http://www.filefactory.com/file/c0bb521/n/G037_G038_G039_Lesson_8-Turbine_Control_Power_Line_Earthing.zip

G037+G038+G039 Lesson 9-Insulator.zip

http://youtu.be/l4jqs8MLBFA

http://youtu.be/TiQezIA9Z-c

http://www.filefactory.com/file/c221eff/n/G037_G038_G039_Lesson_9-Insulator.zip

G037+G038+G039 Lesson 10-Reliability of Power System.zip

http://youtu.be/tIUk3nc1IxE

http://www.filefactory.com/file/c0bb6e4/n/G037_G038_G039_Lesson_10-Reliability_of_Power_System.zip

G037+G038+G039 Lesson 11-Harmonic Reduction.zip

http://youtu.be/8dYX-11kRcc

http://youtu.be/A684Agej8-w

http://www.filefactory.com/file/c0bce89/n/G037_G038_G039_Lesson_11-Harmonic_Reduction.zip

G037+G038+G039 Lesson 12-Grounding + Power Quality.zip

http://youtu.be/QQPUj3WXJnA

http://www.filefactory.com/file/c0bb872/n/G037_G038_G039_Lesson_12-Grounding_Power_Quality.zip

G037+G038+G039 Lesson 13-Power Quality.zip

http://youtu.be/feI7SCb_QTY

http://youtu.be/mcK2YhDsnr0

http://www.filefactory.com/file/c0bb98d/n/G037_G038_G039_Lesson_13-Power_Quality.zip

G037+G038+G039 Lesson 14-Harmonic Model.zip

http://youtu.be/dwWBOq-BsLY

http://www.filefactory.com/file/c0bcad7/n/G037_G038_G039_Lesson_14-Harmonic_Model.zip

G037+G038+G039 Lesson 15-Harmonic Losses in Transformer.zip

http://youtu.be/mwEJgEEgPVc

http://youtu.be/1A6FY5f5ijM

http://youtu.be/yLiOKy7uJj0

http://www.filefactory.com/file/c39b12f/n/G037_G038_G039_Lesson_15-Harmonic_Losses_in_Transformer.zip

G037+G038+G039 Lesson 16-Reliability Improvement.zip

http://youtu.be/cn-CfDWnUN8

http://www.filefactory.com/file/c39ca44/n/G037_G038_G039_Lesson_16-Reliability_Improvement.zip

G037+G038+G039 Lesson 17-Preparation for emergency.zip

http://youtu.be/La7Xip8GI2I

http://www.filefactory.com/file/c0bcbd7/n/G037_G038_G039_Lesson_17-Preparation_for_emergency.zip

G037+G038+G039 Lesson 18-Harmonic problems.zip

http://youtu.be/0Urnkee_

http://youtu.be/zM_Xcwckicw

http://www.filefactory.com/file/c0bcb68/n/G037_G038_G039_Lesson_18-Harmonic_problems.zip

G037+G038+G039 Lesson 19-Synchronous machine problems.zip

http://youtu.be/Lx2S-NATr20

http://www.filefactory.com/file/c0bccb8/n/G037_G038_G039_Lesson_19-Synchronous_machine_problems.zip

G037+G038+G039 Lesson 20-Power Generation + Generator Control.zip

http://youtu.be/56Ks8sArQxc

http://www.filefactory.com/file/c0bcc20/n/G037_G038_G039_Lesson_20Power_Generation_Generator_Control.zip

G037+G038+G039 Lesson 21-Turbine Control+ Digital Excitation.zip

http://youtu.be/uCsvv18qKwQ

http://youtu.be/I4vCDI2CZS0

http://www.filefactory.com/file/c0bcdf6/n/G037_G038_G039_Lesson_21-Turbine_Control_Digital_Excitation.zip

G037+G038+G039 Lesson 22-Power System Protection.zip

http://youtu.be/c6iXRwfCYBU

http://www.filefactory.com/file/c0bcd4c/n/G037_G038_G039_Lesson_22-Power_System_Protection.zip

G037+G038+G039 Lesson 23-Switch Gear.zip

http://youtu.be/DDpbzgNYTiM

http://youtu.be/2cl-nOdBNro

http://www.filefactory.com/file/c0bcea8/n/G037_G038_G039_Lesson_23-Switch_Gear.zip

The links contain the following lessons

G037+G038+G039 Lesson 1-Power Flow

G037+G038+G039 Lesson 2-Site Earthing

G037+G038+G039 Lesson 3-Power System Control Equipments

G037+G038+G039 Lesson 4-Auxiliary System+ Harmonic

G037+G038+G039 Lesson 5-Harmonic

G037+G038+G039 Lesson 6-Harmonic Calculation

G037+G038+G039 Lesson 7-Synchronous Generator Loading

G037+G038+G039 Lesson 8-Turbine Control+ Power Line Earthing

G037+G038+G039 Lesson 9-Insulator

G037+G038+G039 Lesson 10-Reliability of Power System

G037+G038+G039 Lesson 11-Harmonic Reduction

G037+G038+G039 Lesson 12-Grounding + Power Quality

G037+G038+G039 Lesson 13-Power Quality

G037+G038+G039 Lesson 14-Harmonic Model

G037+G038+G039 Lesson 15-Harmonic Losses in Transformer

G037+G038+G039 Lesson 16-Reliability Improvement

G037+G038+G039 Lesson 17-Preparation for emergency

CLASS LESSONS

AG.zip

http://www.filefactory.com/file/c0b7f21/n/AG.zip

Power system 2-G037+G038+G039.zip

http://www.filefactory.com/file/c0b7a33/n/Power_system_2-G037_G038_G039.zip

A010.zip

http://www.filefactory.com/file/c0b7f3c/n/A010.zip

Exercise

Do G015AG Page 130 to 135 of the following link

http://www.filefactory.com/file/c0b7da3/n/Advanced_Diploma_in_Electrical_Engineering_Exercises.zip

Part 2-References

Power System Operation References

http://www.filefactory.com/file/3efllwc0zntl/G015%2BG037%2BG038%2BG030Pt1%2B7762AG%20Notes.doc

Part 3-Practicals

Electrical Power Wiring & Switch Gear Installation

- **Practical Demonstration Videos (Youtube)**

Circuit Breaker Operation
http://youtu.be/5HxDcG-bXcE

http://youtu.be/oJJMZ42d3HY

Circuit Breaker Testing
http://youtu.be/YH4sisgVsaI

Electric Fire
http://youtu.be/0DXz2Ny7w74

http://youtu.be/1n61ds40lt4

Erecting OH Line Tower
http://youtu.be/4Oa_TYE03AA

High Power Transformer
http://youtu.be/nkdMjGlq0eM

http://youtu.be/r6SiiiEM3U8

http://youtu.be/dK-co0rn28E

HV DC Line
http://youtu.be/LYWQOG1GI0A

Line Breaker Action
http://youtu.be/vGd9zOd1hVU

Line Fault+ Switch Board Fault
http://youtu.be/8DUGjhDMkIU

Line Maintenance
http://youtu.be/jP1ALtd8EJM

http://youtu.be/he29KVwB84w

Line to Line Fault
http://youtu.be/JOOxxmndQB0

OH Line Installation
http://youtu.be/G-iepsQ6wOw

http://youtu.be/lU63aXhAqYk

http://youtu.be/zG63ZtB5ZOQ

Power Line Accident Due to Ladder
http://youtu.be/csV1qiMskSQ

Removal of link to disconnect 132KV Circuit Breaker
http://youtu.be/mP11Ilkkpxs

UG Line Construction

http://youtu.be/6VTxreRZFkQ

- **Practical Demonstration Videos (Downloadable)**

Circuit Breakers & Switch Boards

Switch board Circuit breaker Installation 3.mp4 (33.81MB)
http://www.filefactory.com/file/wagt5a5bjjz/n/Switch_board_Circuit_breaker_Installation_3.mp4

Switch board Circuit breaker Installation 2.mp4 (0.39MB)
http://www.filefactory.com/file/353v5nppktwf/n/Switch_board_Circuit_breaker_Installation_2.mp4

Switch board Circuit breaker Installation 1.mp4 (167.18MB)
http://www.filefactory.com/file/1avuobq7fh9z/n/Switch_board_Circuit_breaker_Installation_1.mp4

Removal of link to disconnecting circuit breaker 132KV.mp4 (108.08MB)
http://www.filefactory.com/file/6d0xw9fdrpvr/n/Removal_of_link_to_disconnecting_circuit_breaker_132KV.mp4

Line breaker action.mp4 (16.58MB)
http://www.filefactory.com/file/4mnkpfng84tr/n/Line_breaker_action.mp4

Circuit Breaker Operation.mp4 (22.04MB)
http://www.filefactory.com/file/4kf6zjzkkuzh/n/Circuit_Breaker_Operation.mp4

Circuit Breaker Testing.mp4 (85.51MB)
http://www.filefactory.com/file/772y45oyb2al/n/Circuit_Breaker_Testing.mp4

Power Transformer

Power Transformers.mp4 (76.55MB)
http://www.filefactory.com/file/10vvwztf8xxn/n/Power_Transformers.mp4

Power Transformer Installation.mp4 (7.52MB)
http://www.filefactory.com/file/5xwru7hc6ix1/n/Power_Transformer_Installation.mp4

High Power Transformer.mp4 (84.3MB)
http://www.filefactory.com/file/4jk3tfh10mnn/n/High_Power_Transformer.mp4

Electrical Safety & Electric Fire Awareness

Power line accident due to ladder.mp4 (10.96MB)
http://www.filefactory.com/file/60bpqkz651tr/n/Power_line_accident_due_to_ladder.mp4

Electric Fire 1.mp4 (62.65MB)
http://www.filefactory.com/file/3k0nyrn8l68n/n/Electric_Fire_1.mp4

Electric Fire 2.mp4 (38.11MB)
http://www.filefactory.com/file/e82aysxd83d/n/Electric_Fire_2.mp4

High Voltage Electrical Works

- **Practical Demonstration Videos**

  ## Over Head & Under Ground Lines

- **UG Line Construction.mp4 (25.19MB)**
  http://www.filefactory.com/file/1s4i34cumc0h/n/UG_Line_Construction.mp4

- **Erecting the OH Line tower.mp4 (62.3MB)**
  http://www.filefactory.com/file/4p282vhla2ch/n/Erecting_the_OH_Line_tower.mp4

  OH Line wire installation.mp4 (52.97MB)
  http://www.filefactory.com/file/4gahulyah75z/n/OH_Line_wire_installation.mp4

  Operation of UHV Line Circuit Breaker.mp4 (5.58MB)
  http://www.filefactory.com/file/5jnob6ztcdsv/n/Operation_of_UHV_Line_Circuit_Breaker.mp4

  OH Line Installation.mp4 (27.07MB)
  http://www.filefactory.com/file/860b1wmjmjv/n/OH_Line_Installation.mp4

  OH Line Installation 1.mp4 (91.93MB)
  http://www.filefactory.com/file/22cxautkqj3z/n/OH_Line_Installation_1.mp4

  OH Line cable installation.mp4 (43.12MB)
  http://www.filefactory.com/file/48uu8mcub9cf/n/OH_Line_cable_installation.mp4

  Line maintenance.mp4 (56.41MB)
  http://www.filefactory.com/file/wy2q54pngwr/n/Line_maintenance.mp4

  Line to line fault.mp4 (4.96MB)
  http://www.filefactory.com/file/pxeio9jnwb3/n/Line_to_line_fault.mp4

  Line maintenance 2.mp4 (38.39MB)
  http://www.filefactory.com/file/3r0myz0nshxj/n/Line_maintenance_2.mp4

  Line faults+ Switchboard fault-Fire.mp4 (61.36MB)
  http://www.filefactory.com/file/1rwryqzfplan/n/Line_faults+_Switchboard_fault-Fire.mp4

  HV DC Line.mp4 (18.73MB)
  http://www.filefactory.com/file/uppn6jee7s5/n/HV_DC_Line.mp4

- **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/57e2el72is2v/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
-
- **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/3noygi3n1zjh/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/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
- **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/40l1j0tou8mx/n/4_3_doc
- 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://www.filefactory.com/file/1zjy9yt8hlqn/n/4-5_pdf
- 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_powerConnection_of_V_I_F_PF_Meter
- Reactive_power
- 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/7kx9i3f2mx6n/n/4-2_pdf
- http://www.filefactory.com/file/nsdk910ui4f/n/4_2_doc

-
- http://www.filefactory.com/file/5w7jcny20kn9/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/5s68gn2m8lfr/n/4-12_pdf
-
- http://www.filefactory.com/file/5gcxv439m5in/n/Power_Practical-TrPolarity_OCT_SCT_pdf
-
- Auto_Tr_Test

ONLINE TESTS

- **G015+G046**
-
- G015+G046 MCQ Practice 1
-
- G015+G046 MCQ Practice 2
-
- G015+G046 MCQ Practice 3
-
- G015+G046 MCQ Practice 4
-
- G015+G046 MCQ Practice 5
-
- **G037+G038+G039**
-
- G037+G038+G039 MCQ Practice 1
-
- G037+G038+G039 MCQ Practice 2
-
- G037+G038+G039 MCQ Practice 3
-
- G037+G038+G039 MCQ Practice 4
-
- G037+G038+G039 MCQ Practice 5

ONLINE TESTS MARKING

G015+G046 Test 1----------UETTDRIS 67+68+74

http://www.filefactory.com/file/4jzmn6sa4rkd/n/G015_G046_Online_Test_1_Answer_doc

http://www.filefactory.com/file/50ox6xeklufp/n/G015_G046_Online_Test_1_Question_pdf

http://www.filefactory.com/file/5eai2er97faz/n/G015_G046_Online_Test_1_Marking_doc

http://www.classroomclipboard.com/503511/Home/Test/67dbfd25caa3484498a850f3b1050457#/InitializeTest.xaml

G9UCJ

G015+G046 Test 2----------UETTDRIS 67+68+74

http://www.filefactory.com/file/1s822zs1jz89/n/G015_G046_Online_Test_2_Question_pdf

http://www.filefactory.com/file/46fd21gaqbrz/n/G015_G046_Online_Test_2_Marking_doc

http://www.filefactory.com/file/72nnb9tokazx/n/G015_G046_Online_Test_2_Answer_doc

http://www.classroomclipboard.com/503511/Home/Test/204b4231f0ea4492986ce2ec11302704#/InitializeTest.xaml

FSXU

G015+G046 Test 3----------UETTDRIS 67+68+74

http://www.filefactory.com/file/4vsjt10eyxbr/n/G015_G046_Online_Test_3_Marking_doc

http://www.filefactory.com/file/670cmx5aiqd9/n/G015_G046_Online_Test_3_Answer_doc

http://www.filefactory.com/file/6pcivv5e0y05/n/G015_G046_Online_Test_3_Question_pdf

http://www.classroomclipboard.com/503511/Home/Test/542fb0501a334d8788c68c19208e96e1#/InitializeTest.xaml

JE3W

G015+G046 Test 4----------UETTDRIS 67+68+74

http://www.filefactory.com/file/11r4pppif5fz/n/G015_G046_Online_Test_4_Marking_doc

http://www.filefactory.com/file/4obspr3n1fkf/n/G015_G046_Online_Test_4_Question_pdf

http://www.filefactory.com/file/11r4pppif5fz/n/G015_G046_Online_Test_4_Marking_doc

http://www.classroomclipboard.com/503511/Home/Test/faf4fd339f25425784a5c04d186fe5db#/InitializeTest.xaml

CCLV2SN

G015+G046 Test 5----------UETTDRIS 69

http://www.filefactory.com/file/5t1q4kveec4v/n/G015_G046_Online_Test_5_Question_pdf

http://www.filefactory.com/file/6kjomzcib4z/n/G015_G046_Online_Test_5_Marking_doc

http://www.filefactory.com/file/1059gjdiyfqf/n/G015_G046_Online_Test_5_Answer_doc

http://www.classroomclipboard.com/503511/Home/Test/0fd45546932d49dbb628fee5cbbaed7b#/InitializeTest.xaml

T6X5982

G037+G038+G039 Test 1----------UETTDRIS 67+68+69

http://www.filefactory.com/file/22ti8gb92ekf/n/G037_G038_G039_Online_Test_1_Answer_doc

http://www.filefactory.com/file/23tfp2egn4f3/n/G037_G038_G039_Online_Test_1_Marking_doc

http://www.filefactory.com/file/73d338io59lr/n/G037_G038_G039_Online_Test_1_Answer_pdf

http//www.G037+G038+G039 Test 1 Question,pdf

http://www.filefactory.com/file/6o7ow8er4f9l/n/G037_G038_G039_Online_Test_1_Question_pdf

http://www.classroomclipboard.com/503511/Home/Test/9696759cec624be1a7793b7d1edd87c2#/InitializeTest.xaml

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G037+G038+G039 Test 2----------UETTDRIS 67+68+69

http://www.filefactory.com/file/34mz6a80pwix/n/G037_G038_G039_Online_Test_2_Marking_doc

http://www.filefactory.com/file/5by85g9rxmoh/n/G037_G038_G039_Online_Test_2_Question_pdf

http://www.filefactory.com/file/7cgx58m1iz59/n/G037_G038_G039_Online_Test_2_Answer_doc

http://www.classroomclipboard.com/503511/Home/Test/8ea510a583bf41b5b6a994378eeb912f#/InitializeTest.xaml

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G037+G038+G039 Test 3----------UETTDRIS 67+68+69

http://www.filefactory.com/file/3cf98pio9dqt/n/G037_G038_G039_Online_Test_3_Answer_doc

http://www.filefactory.com/file/5fy0regqoh0n/n/G037_G038_G039_Online_Test_3_Question_pdf

http://www.filefactory.com/file/71gttpe18hqd/n/G037_G038_G039_Online_Test_3_Marking_doc

http://www.classroomclipboard.com/503511/Home/Test/adae49f2f39c4158925fe7010b460540#/InitializeTest.xaml

S947G

G037+G038+G039 Test 4----------UETTDRIS 67+68+69

http://www.filefactory.com/file/3mznyjrrflzz/n/G037_G038_G039_Online_Test_4_Marking_doc

http://www.filefactory.com/file/q1sn4hitpjb/n/G037_G038_G039_Online_Test_4_Question_pdf

http://www.filefactory.com/file/3zbh1e894r2f/n/G037_G038_G039_Online_Test_4_Answer_doc

http://www.classroomclipboard.com/503511/Home/Test/f1486f63ce8f4e349919659cd7bd4a98#/InitializeTest.xaml

49JL

G037+G038+G039 Test 5----------UETTDRIS 67+68+69

http://www.filefactory.com/file/738vtwzyd3qp/n/G037_G038_G039_Online_Test_5_Question_pdf

http://www.filefactory.com/file/6zwgrm14worz/n/G037_G038_G039_Online_Test_5_Marking_doc

http://www.filefactory.com/file/5gdkh0ptdimd/n/G037_G038_G039_Online_Test_5_Answer_doc

http://www.classroomclipboard.com/503511/Home/Test/029dcf4b117c47109ff8d981a108e5c6#/InitializeTest.xaml

KV6K3G

EE113 Electrical Fundamental

Tutoring Lessons

Lesson 1 Lesson 2 Lesson 3

Test & Assessment

http://www.filefactory.com/file/r372kwb529d/n/E029_G012_Online_Test_1_Question_pdf

http://www.filefactory.com/file/73yyxs4hpdmv/n/E029_G012_Online_Test_1_Answer_doc

Do the tests and send the answer sheet in soft copy by e-mail to
iqytechnicalcollege@gmail.com

Password- **iqytechnicalcollege**

Study the EE113 file notes and then do the following exercises.

E029+G012 Online Test

Ref40

3 voltages , phase to neutral are measured to be 220V, 215V and 210V on nominal 415V , 50Hz. The percentage voltage imbalance is

A	2.3%	B	6%
C	4.6%	D	10%

	Answer		

Ref41

The synchronous speed is

A	Ns = 120f / p	B	Ns = P / 120f
C	Ns=Pf / 120	D	Ns= 120f
	Answer		

Ref42

Torque is

A	Torque α Voltage	B	Torque α 1/ voltage
C	Torque α $Voltage^2$	D	Torque α Voltage x Current
	Answer		

Ref43

Permissible starting current for two motors (a) 15KW , 415V & (b) 15KW , 415V are

A	102.5A & 82.3A	B	200A & 60A
C	300A & 100A	D	50A & 40A
	Answer		

EE114 Electrical Power Principle

Tutoring Lessons

Lesson 1 Lesson 2 Lesson 3

Test & Assessment

http://www.filefactory.com/file/789ejsjf1yq1/n/G012_Online_Test_3_Question_pdf

http://www.filefactory.com/file/5hurvxj3u09r/n/G012_Online_Test_3_Answer_doc

Do the tests and send the answer sheet in soft copy by e-mail to
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Study the files EE114

Do the exercises

Ref163

The measured speed of three phase , 4215V, 50HZ, 2 poles motor is 2700 rpm. . Slip and % slip are

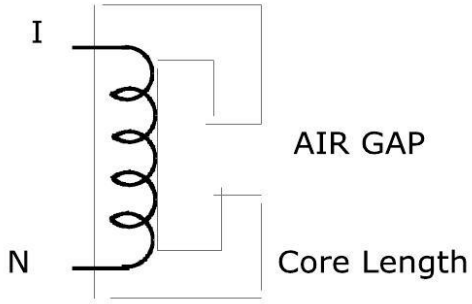
A	0.2, 20%	B	0.15, 15%
C	0.3, 30%	D	0.1, 10%
	Answer		

Ref164

The relationship between voltage, current and number of turns of a transformer is

A	V1/ V2 = N1/N2 = I2/I1 = a	B	V1/ V2 = N2/N1 = I2/I1 = a
C	V1/ V2 = N1/N2 = I1/I2 = a	D	
	Answer		

Ref165



N = 350 Turns, Air Gap = 0.15mm, Core length = 1250mm, Flux density = 1.105 T , μ = 1800

The current I is

A	6.2 A	B	9.3A
C	1.26A	D	3.16A
	Answer		

G012 Online Test

Ref160

The force produced in three phase winding of AC machine is

A	$\frac{3\ Im\ N\ e^{jwt}}{2}$	B	$\frac{Im\ N\ e^{jwt}}{2}$
C	$\frac{\sqrt{3}\ Im\ N\ e^{jwt}}{2}$	D	$\sqrt{3}\ Im\ N\ e^{jwt}$
	Answer		

Ref161

Three phase , 4 poles , 36 slots, 50HZ winding . The coil span is

A	7	B	8
C	9	D	10
	Answer		

Ref162

The speed of 2 poles, 25 HZ motor is

A	3000 rpm	B	1500 rpm
C	750 rpm	D	1000 rpm
	Answer		

Ref166

The voltage regulation of a synchronous generator is

A	$\frac{Ef - V}{V} \times 100\,\%$	B	$\frac{Ef}{V} \times 100\,\%$
C	$\frac{V - Ef}{V} \times 100\,\%$	D	
	Answer		

Ref167

Synchronous impedance is

A	$Z_s = Voc / Isc$	B	$Z_s = Vsc / Isc$
C	$Z_s = Voc / Ioc$	D	
	Answer		

Ref168

The voltage equation for synchronous generator is

A	$Ef = V + I\ Zs$	B	$Ef = V - I\ Zs$
C	$Ef = V \times I\ Zs$	D	$Ef = V / I\ Zs$
	Answer	A	

Ref169

The voltage equation for synchronous motor is

A	$Ef = V + I\ Zs$	B	$Ef = V - I\ Zs$
C	$Ef = V \times I\ Zs$	D	$Ef = V / I\ Zs$
	Answer		

Ref45

The weight of a tabular steel column 120 mm outside diameter and 100 mm inside diameter and 3 m height is

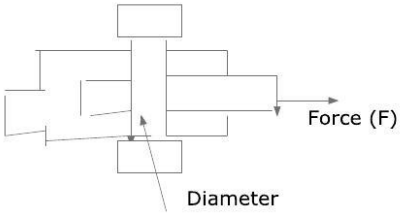
A	1000N	B	500N
C	400N	D	793.3N
	Answer		

Ref46

A steel specimen 10 mm diameter rupture under 37KN , the ultimate strength is

A	800N/mm^2	B	1200N/mm^2
C	471N/mm^2	D	1024N/mm^2
	Answer		

Ref47



Diameter = 10 mm^2 Force (F) = 37 KN

The stress is

A	1200N/mm^2	B	471N/mm^2
C	1000N/mm^2	D	200N/mm^2
	Answer		

EE205 Electrical Power System

Tutoring Lessons

EE205 Part 1 EE205 Part 2 EE205 Part 3 EE205 Part 4 EE205 Part 5

EE205 Part 6 EE205 Part 7 EE205 Part 8 EE205 Part 9 EE205 Part 10

EE205 Part 11 EE205 Part12 EE205 Part 13

Test & Assessment

http://www.filefactory.com/file/22ti8gb92ekf/n/G037_G038_G039_Online_Test_1_Answer_doc

http//www.G037+G038+G039 Test 1 Question.pdf

Do the tests and send the answer sheet in soft copy by e-mail to
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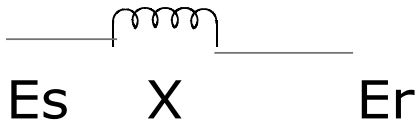
Password- **iqytechnicalcollege**

Study the notes in the EE205 files & do the exercise

G037+G038+G039 Online Test

Ref257



Er= 200V, X = 5 Ω P = 1000 watt Q = 500 VAR

The value of Es is

A	400V	B	200V
C	213.9V	D	120V
	Answer		

Ref262

To provide physical damage to building & equipments due to direct and indirect lightning strike.

A	Circuit protection device to be provided	B	Equalizer to be provided
C	Site earthing to be provided	D	PF must be improved.
	Answer		

Ref267

Which equipment is not included in power system equipment?

A	Main feeder	B	Consumer main
C	Sectionalising busbar	D	Recloser
	Answer		

Ref292

The current in a system is 62.5A in which 59 amp is fundamental. Calculate total harmonic distortion . If the harmonic is combination of 3^{rd} , 5^{th} and 7^{th} and third harmonic is 15.6A, 5^{th} harmonic is 10.3A, find 7^{th} harmonic.

A	60% 10A	B	34.9% 8.66A
C	70% 3A	D	15% 2A
	Answer		

Ref297

Earthing cable is to be connected to

A	Star point of star connected winding	B	Neutral conductor
C	Circuit breaker	D	
	Answer		

Ref302

Arc lengthening , arc splitting and arc cooling functions are provided in

A	Relay	B	Circuit breaker
C	Busbar	D	Recloser
	Answer		

Ref307

Switching transient causes

A	Disruption of normal operation	B	Degrading of components
C	Damage to equipments	D	All above
	Answer		

Ref312

The lightning strike can directly at

A	SPZOA	B	SPZ1
C	SPZ2	D	SPZ3
	Answer		

Ref317

The short duration reduction in the rms voltage between 0.1 and 0.9 pu caused by energizing the heavy load, single line to ground fault and load transfer from one source to remote source is

A	Sag	B	Swell
C	Surge	D	
	Answer		

Ref322

Sinusoidal wave becomes other forms of wave is

A	Voltage imbalance	B	Transient
C	Waveform distortion	D	Voltage reduction
	Answer		

Ref327

If the voltage is increased , the solution is to provide

A	Use properly tuned filter	B	Use surge detector
C	Use equalizer busbar	D	Use equipotential bonding
	Answer		

Ref332

The circuit consists of 100 V 60HZ and 5^{th} harmonic 51V 300HZ in series with 24 ohm resistor & 18.6 mH inductor. Calculate total dissipated power.

A	209 W	B	104.5W
C	418.6W	D	836W
	Answer		

Ref337

Two units of generator maintain 66KV and 60KV line at the end of an interconnector of inductive reactance per phase of 40 ohm with negligible resistance and shunt capacitance . A load of 10 MW is to be transferred from 66KV unit to the other end. Calculate the PF of the current transmitted.

A	0.1	B	0.2
C	0.3	D	0.4

Answer		