

GE8 Electronics

EE115	Basic Analogue & Digital Electronics	2
EE209	Analogue Electronics	1

Part 1 Lessons

Page 374 to 377 of

http://www.filefactory.com/file/cf9bf8f/n/Video_Lessons.pdf

H011 DC Power Supply

UEENEEH114A		Troubleshoot resonance circuits in an electronic apparatus
UEENEEH102A		Repairs basic electronic apparatus faults by replacement of components
UEENEEH111A		Troubleshoot single phase input d.c. power supplies

DC Power supplies

H011 Lesson 1 DC Power supply principle.zip

<http://youtu.be/S1no7ZshUwA>

http://www.filefactory.com/file/c0b06d1/n/H011_Lesson_1_DC_Power_supply_principle.zip

H011 Lesson 2 Load regulation.zip

<http://youtu.be/9yCpkrbJdtQ>

http://www.filefactory.com/file/c0b06f8/n/H011_Lesson_2_Load_regulation.zip

H011 Lesson 3 Current limiter.zip

<http://youtu.be/fV2cEqYot74>

<http://youtu.be/qy9TXslvE1E>

http://www.filefactory.com/file/c0b1c72/n/H011_Lesson_3_Current_limiter.zip

The links contain the following lessons

H011 Lesson 1 DC Power supply principle

H011 Lesson 2 Load regulation

H011 Lesson 3 Current limiter

H013

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http://www.filefactory.com/file/cf9bf8f/n/Video_Lessons.pdf

Amplifier

H013 Lesson 1 Amplifier model.zip

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

http://www.filefactory.com/file/c0b0641/n/H013_Lesson_1_Amplifier_model.zip

H013 Lesson 2 Amplifier biasing.zip

<http://youtu.be/Xk34pnOlGZ4>

http://youtu.be/QGGw2_K38BY

http://www.filefactory.com/file/c0b067a/n/H013_Lesson_2_Amplifier_biasing.zip

H013 Lesson 3 Amplifier configuration.zip

<http://youtu.be/PmGrqK94xks>

http://www.filefactory.com/file/c0b068d/n/H013_Lesson_3_Amplifier_configuration.zip

H013 Lesson 4 Amplifier parameters.zip

<http://youtu.be/6CivoozCPu4>

<http://youtu.be/R8TouJvv6OA>

http://www.filefactory.com/file/c0b0697/n/H013_Lesson_4_Amplifier_parameters.zip

H013 Lesson 5 JFET.zip

<http://youtu.be/XW1bcn99zZ0>

<http://youtu.be/yb-qM5jE0Oc>

http://www.filefactory.com/file/c0b07c3/n/H013_Lesson_5_JFET.zip

The links contain the following lessons

H013 Lesson 1 Amplifier model

H013 Lesson 2 Amplifier biasing

H013 Lesson 3 Amplifier configuration

H013 Lesson 4 Amplifier parameters

H013 Lesson 5 JFET

Power Electronics I

EE109	Electrical Control Circuits
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EE208	Operational Amplifiers
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H025+ H & I units in UEE11

UEENEE148A		Solve problems in single phase electronic power control circuits
UEENEE149A		Solve problems in polyphase electronic power control circuits

Page 387 to 403 of

http://www.filefactory.com/file/cf9bf8f/n/Video_Lessons.pdf

Operational amplifier+ single phase power control equipments

H025 Lesson 1-Differential Amplifier.zip

http://youtu.be/ad_3bdF0zds

<http://youtu.be/O5in0xvrnPQ>

http://www.filefactory.com/file/c39b73b/n/H025_Lesson_1-Differential_Amplifier.zip

[H025 Lesson 2-Comparator.zip](#)

<http://youtu.be/pePuim3kqKQ>

http://www.filefactory.com/file/c0b072e/n/H025_Lesson_2-Comparator.zip

[H025 Lesson 3-Timer IC.zip](#)

<http://youtu.be/KMaFlzaoUm4>

<http://youtu.be/CbUWCd6fP9A>

http://www.filefactory.com/file/c0b077e/n/H025_Lesson_3-Timer_IC.zip

[H025 Lesson 4-Op Amp Circuit 1 & 2.zip](#)

<http://youtu.be/wl-jVz30LSc>

http://youtu.be/b8pjTG9Om_w

http://www.filefactory.com/file/c0b08c8/n/H025_Lesson_4-Op_Amp_Circuit_1_2.zip

[H025 Lesson 5-Op amp characteristics+Band widthe compensation.zip](#)

http://youtu.be/1t6fdXK5i_0

<http://youtu.be/Htq19FqAxSA>

http://www.filefactory.com/file/c0b09da/n/H025_Lesson_5-Op_amp_characteristics_Band_widthe_compensation.zip

H025 Lesson 6-Op amp diode characteristics.zip

<http://youtu.be/uHkiUpemhPs>

http://www.filefactory.com/file/c0b09e1/n/H025_Lesson_6-Op_amp_diode_characteristics.zip

H025 Lesson 7-Sine & square wave oscillators.zip

<http://youtu.be/IOWhEW2THxw>

http://www.filefactory.com/file/c0b090a/n/H025_Lesson_7-Sine_square_wave_oscillators.zip

H025 Lesson 8-Op amp ckt-Integrator+Differentiator.zip

<http://youtu.be/3GFksg5MYUU>

http://www.filefactory.com/file/c0b0909/n/H025_Lesson_8-Op_amp_ckt-Integrator_Differentiator.zip

H025 Lesson 9-Active filter.zip

<http://youtu.be/VedHWINE60Q>

http://www.filefactory.com/file/c0b0916/n/H025_Lesson_9-Active_filter.zip

H025 Lesson 10-Multistage Op amp ckt.zip

<http://youtu.be/SpHOroXrQf0>

http://youtu.be/_GQzAZw15oM

<http://youtu.be/TAwRmz298iM>

http://www.filefactory.com/file/c0b0948/n/H025_Lesson_10-Multistage_Op_amp_ckt.zip

H025 Lesson 11-Transducers.zip

<http://youtu.be/ojsZNBOoX3U>

<http://youtu.be/7vAOB8pNXhQ>

http://www.filefactory.com/file/c0b0978/n/H025_Lesson_11-Transducers.zip

H025 Lesson 12-Introduction to control.zip

<http://youtu.be/dr1kfNW0TFc>

http://www.filefactory.com/file/c0b0986/n/H025_Lesson_12-Introduction_to_control.zip

The links contain the following lessons

H025 Lesson 1-Differential Amplifier

H025 Lesson 2-Comparator

H025 Lesson 3-Timer IC

H025 Lesson 4-Op Amp Circuit 1 & 2

H025 Lesson 5-Op amp characteristics+ Band width compensation

H025 Lesson 6-Op amp diode characteristics

H025 Lesson 7-Sine & square wave oscillators

H025 Lesson 8-Op amp ckt-Integrator+ Differentiator

H025 Lesson 9-Active filter

H025 Lesson 10-Multistage Op amp ckt

H025 Lesson 11-Transducers

H025 Lesson 12-Introduction to control

Analogue Electronics

EE209	Analogue Electronics
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H045+ H & I units in UEE11

UEENEEH114A		Troubleshoot resonance circuits in an electronic apparatus
UEENEEH147A		Assess electronic apparatus compliance

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http://www.filefactory.com/file/cf9bf8f/n/Video_Lessons.pdf

[Analogue Electronics](#)

H045 Lesson 1 Op-amp.zip

<http://youtu.be/Z5WuKH6IKQE>

<http://youtu.be/mDmxHibHJC8>

http://www.filefactory.com/file/c39ccc7/n/H045_Lesson_1_Op-amp.zip

[H045 Lesson 2 DC Non idealities.zip](#)

<http://youtu.be/rnmW34QubIU>

<http://youtu.be/BbDgNqd13ek>

<http://youtu.be/RYJiLQ32RhY>

http://www.filefactory.com/file/c39cdef/n/H045_Lesson_2_DC_Non_idealities.zip

[H045 Lesson 3 Bias compensation.zip](#)

<http://youtu.be/QYzuMasWWbg>

http://www.filefactory.com/file/c0b1b86/n/H045_Lesson_3_Bias_compensation.zip

[H045 Lesson 4 Slew rate.zip](#)

<http://youtu.be/NERLYuZYVv0>

http://www.filefactory.com/file/c0b1ca0/n/H045_Lesson_4_Slew_rate.zip

[H045 Lesson 5 AC Noise.zip](#)

<http://youtu.be/XZKFddOSPTg>

http://www.filefactory.com/file/c39cebc/n/H045_Lesson_5_AC_Noise.zip

H045 Lesson 6 Source noise resistance.zip

http://youtu.be/3_08GpV4P-w

http://www.filefactory.com/file/c268af2/n/H045_Lesson_6_Source_noise_resistance.zip

H045 Lesson 7 Signal to noise ratio.zip

http://youtu.be/_pT6i7gYUQU

<http://youtu.be/u7iIW7Os-Mc>

http://www.filefactory.com/file/c0b1cff/n/H045_Lesson_7_Signal_to_noise_ratio.zip

H045 Lesson 8 Frequency compensation.zip

<http://youtu.be/rHz2fwkDPNw>

http://www.filefactory.com/file/c39ce16/n/H045_Lesson_8_Frequency_compensation.zip

[H045 Lesson 9 Stability analysis.zip](http://www.filefactory.com/file/c0b1c95/n/H045_Lesson_9_Stability_analysis.zip)

<http://youtu.be/wugrGy-eHD4>

http://www.filefactory.com/file/c0b1c95/n/H045_Lesson_9_Stability_analysis.zip

H045 Lesson 10 Feedforward compensation.zip

<http://youtu.be/XmHxvyCL-Zw>

<http://youtu.be/PS4TLDPL9GI>

http://www.filefactory.com/file/c0b1c56/n/H045_Lesson_10_Feedforward_compensation.zip

The links contain the following lessons

H045 Lesson 1 Op-amp

H045 Lesson 2 DC Non idealities

H045 Lesson 3 Bias compensation

H045 Lesson 4 Slew rate

H045 Lesson 5 AC Noise

H045 Lesson 6 Source noise resistance

H045 Lesson 7 Signal to noise ratio

H045 Lesson 8 Frequency compensation

H045 Lesson 9 Stability analysis

H045 Lesson 10 Feedforward compensation

CLASS LESSONS

[Amplifier+Power Supply+Digital H011+H012+H013.zip](#)

http://www.filefactory.com/file/c0b64d1/n/Amplifier_Power_Supply_Digital_H011_H012_H013.zip

[Power Electronics -H025+H026.zip](#)

http://www.filefactory.com/file/c0b6857/n/Power_Electronics_-H025_H026.zip

Exercise

Do UEENEEH011+12+13

Page 213 to 225 of the following link

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

Part 2 References

Amplifier

Analog Electronics

Amplifier.pdf (20.1MB)

<http://www.filefactory.com/file/3mnlb6cf8kt1/n/Amplifier.pdf>

basic logic gate.mht (0.05MB)

http://www.filefactory.com/file/6a92lwdjnc0t/n/basic_logic_gate.mht

Analog2.pdf (10.47MB)

<http://www.filefactory.com/file/6ialb81anl3t/n/Analog2.pdf>

Analog1.pdf (6.83MB)

<http://www.filefactory.com/file/6rrv5fbmet9z/n/Analog1.pdf>

Class_A-B_Amplifier.zip (2.18MB)

http://www.filefactory.com/file/2bsdmxua3bwl/n/Class_A-B_Amplifier.zip

Operational Amplifier

H025 Operational Amplifier.pdf (19.57MB)

http://www.filefactory.com/file/2pch4iu5yxbf/n/H025_Operational_Amplifier.pdf

Inverting_Non_inverting_amplifier.zip (3.96MB)

http://www.filefactory.com/file/1gghh7f88yh/n/Inverting_Non_inverting_amplifier.zip

Digital Electronics

simple sequential.mht (0.03MB)

http://www.filefactory.com/file/1s54vmeqwb5h/n/simple_sequential.mht

Rectification.zip (2.37MB)

<http://www.filefactory.com/file/2fyk3c4ckfd1/n/Rectification.zip>

Simple sequential.htm (0.01MB)

http://www.filefactory.com/file/5gt4travuuwn/n/Simple_sequential.htm

sequential circuit state diagram.mht (0.03MB)

http://www.filefactory.com/file/3riucrnaof3t/n/sequential_circuit_state_diagram.mht

SDR Latch.htm (0.03MB)

http://www.filefactory.com/file/5509cqxqjupl/n/SDR_Latch.htm

RESISTOR CIRCUITS.mht (0.03MB)

http://www.filefactory.com/file/5tcvxelour7/n/RESISTOR_CIRCUITS.mht

Rectification.1zip.zip (2.37MB)

<http://www.filefactory.com/file/ffe1omccd5n/n/Rectification.1zip.zip>

Microprocessor_References_to_upload.zip (11.59MB)

http://www.filefactory.com/file/5vgaum66ma2l/n/Microprocessor_References_to_upload.zip

INDUSTRIAL COMPUTER SYSTEM.mht (0.06MB)

http://www.filefactory.com/file/3dce988xa2jp/n/INDUSTRIAL_COMPUTER_SYSTEM.mht

Digital_IC_Reference_2-Part_2.zip (6.99MB)

http://www.filefactory.com/file/2kmfa2loj06p/n/Digital_IC_Reference_2-Part_2.zip

ESD_Review_Questions.zip (0.93MB)

http://www.filefactory.com/file/2bbnkj43yhbl/n/ESD_Review_Questions.zip

Digital_Logic_Simplification.zip (0.97MB)

http://www.filefactory.com/file/4s6cv4bfusa7/n/Digital_Logic_Simplification.zip

Digital_IC_Reference_2-Part_1.zip (8.02MB)

http://www.filefactory.com/file/i5xu0kiu58t/n/Digital_IC_Reference_2-Part_1.zip

Digital_IC_Ref_1-Part_2_0.zip (7.45MB)

http://www.filefactory.com/file/3x9ifveckxe9/n/Digital_IC_Ref_1-Part_2_0.zip

Digital_IC_Ref_1-Part_1.zip (8.16MB)

http://www.filefactory.com/file/6o3q4lvathf/n/Digital_IC_Ref_1-Part_1.zip

Digital_counter.zip (2.41MB)

http://www.filefactory.com/file/7jdgib629fob/n/Digital_counter.zip

Digital_circuit.zip (1.95MB)

http://www.filefactory.com/file/iyas2lo8v2x/n/Digital_circuit.zip

DE2-SR_Flip_Flop_Notes.zip (4.31MB)

http://www.filefactory.com/file/46hj7vhtfhjf/n/DE2-SR_Flip_Flop_Notes.zip

de-morgan.mht (0.02MB)

<http://www.filefactory.com/file/1qz2q0h8e5h5/n/de-morgan.mht>

DE2-Shift_Register.zip (3.21MB)

http://www.filefactory.com/file/76pj9n4r4hf/n/DE2-Shift_Register.zip

DE2-Schmitt_Trigger_Device_Exercise.zip (3.09MB)

http://www.filefactory.com/file/5zubzvb8c6r5/n/DE2-Schmitt_Trigger_Device_Exercise.zip

DE2-Multiplexer_Lesson.zip (4.59MB)

http://www.filefactory.com/file/4p23ty4byglx/n/DE2-Multiplexer_Lesson.zip

DE2Notes.zip (1.52MB)

<http://www.filefactory.com/file/2b70shxmtenf/n/DE2Notes.zip>

DE2-Logic_Level_TotemPole_Note_Exercise.zip (5.67MB)

http://www.filefactory.com/file/542v4ta44wgz/n/DE2-Logic_Level_TotemPole_Note_Exercise.zip

DE2-Logic_Level_Note_Exercise.zip (5.64MB)

http://www.filefactory.com/file/50jjwfs1s09z/n/DE2-Logic_Level_Note_Exercise.zip

DE2-Encoder_Lesson.zip (4.42MB)

http://www.filefactory.com/file/4yvvyd5nwwsp/n/DE2-Encoder_Lesson.zip

DE2-DecoderMultiplexer_Assignment.zip (1.7MB)

http://www.filefactory.com/file/x41lwr6tysb/n/DE2-DecoderMultiplexer_Assignment.zip

DE2-Data_Transfer_Q.zip (0.92MB)

http://www.filefactory.com/file/27ia1hr5r9n/n/DE2-Data_Transfer_Q.zip

DE2-Data_Transfer_Note.zip (3.15MB)

http://www.filefactory.com/file/6u4wkmsdjrjt/n/DE2-Data_Transfer_Note.zip

DE2-D_J_K_Flip_Flop.zip (3.1MB)

http://www.filefactory.com/file/6r4lgvykt0rv/n/DE2-D_J_K_Flip_Flop.zip

DE2-D_Flip_Flop_Q.zip (0.75MB)

http://www.filefactory.com/file/2otd66ttkua3/n/DE2-D_Flip_Flop_Q.zip

DE2-Counter_Exercise.zip (0.64MB)

http://www.filefactory.com/file/6ejv4pcmbaex/n/DE2-Counter_Exercise.zip

DE2-7_Segment_Display.zip (4.54MB)

http://www.filefactory.com/file/1p91632gcyvl/n/DE2-7_Segment_Display.zip

DE2-7_Segment_Display_Review_Q.zip (2.09MB)

http://www.filefactory.com/file/4kdbqw8dfsav/n/DE2-7_Segment_Display_Review_Q.zip

DE2-1_2_Notes.zip (4.8MB)

http://www.filefactory.com/file/1fnpxdw1dxo3/n/DE2-1_2_Notes.zip

DE2_Logic_Families_Part_I_Part_II_Note_Exercise.zip (7.99MB)

http://www.filefactory.com/file/6jq909a2cv8t/n/DE2_Logic_Families_Part_I_Part_II_Note_Exercise.zip

DE2_SR_Flip_Flop_Q.zip (0.7MB)

http://www.filefactory.com/file/16vy9xnhiyx/n/DE2_SR_Flip_Flop_Q.zip

DE2_Shift_Register_Exercise.zip (0.69MB)

http://www.filefactory.com/file/5hf60vk9huoh/n/DE2_Shift_Register_Exercise.zip

DE1-5.zip (9.57MB)

<http://www.filefactory.com/file/ul270mlpdrx/n/DE1-5.zip>

DE1-4_Review_Question.zip (2.43MB)

http://www.filefactory.com/file/1s76i3v4cfgp/n/DE1-4_Review_Question.zip

DE1-3.zip (3.13MB)

<http://www.filefactory.com/file/k5m78otut8t/n/DE1-3.zip>

DE1-3_Review_Question.zip (1.86MB)

http://www.filefactory.com/file/fhqc71se655/n/DE1-3_Review_Question.zip

DE1-2Review_Questions.zip (1.99MB)

http://www.filefactory.com/file/4ph24pc0thlz/n/DE1-2Review_Questions.zip

DE1-2.zip (3.18MB)

<http://www.filefactory.com/file/7k12bimr02j7/n/DE1-2.zip>

DE1-1_Review_Question.zip (1.94MB)

http://www.filefactory.com/file/3dblia0fjec5/n/DE1-1_Review_Question.zip

DAC-Encoder-Multiplexer.zip (17.84MB)

<http://www.filefactory.com/file/1ovg6gatny5l/n/DAC-Encoder-Multiplexer.zip>

DE1-1.zip (4.56MB)

<http://www.filefactory.com/file/366wkgv427ib/n/DE1-1.zip>

DE1.zip (0.97MB)

<http://www.filefactory.com/file/791tzi9f5scx/n/DE1.zip>

DE.zip (0.97MB)

<http://www.filefactory.com/file/1h5abets34s1/n/DE.zip>

de morgan.mht (0.02MB)

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De morgan.htm (0.01MB)

http://www.filefactory.com/file/2j6mg4b2ordz/n/De_morgan.htm

D and JK Flip flop.mht (0.05MB)

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Binary_Number_Lesson.zip (3.39MB)

http://www.filefactory.com/file/6rrjf54r2q3f/n/Binary_Number_Lesson.zip

C8 Electronics.doc (0.1MB)

http://www.filefactory.com/file/2v6e6qy389y3/n/C8_Electronics.doc

7794C DIGITAL ELECTRONICS I.mht (0.05MB)

http://www.filefactory.com/file/1w4wlpheiw2j/n/7794C_DIGITAL_ELECTRONICS_I.mht

Part 3 Practical

Digital+ Analog Practicals

Practical-H045-Mini lab Op-amp.zip (2.04MB)

http://www.filefactory.com/file/5lfqabj6x2bh/n/Practical-H045-Mini_lab_Op-amp.zip

Practical-H025-Precision half wave amplifier.pdf (1.97MB)

http://www.filefactory.com/file/3uspkswlfo19/n/Practical-H025-Precision_half_wave_amplifier.pdf

Practical-H025-Variable frequency drive.pdf (0.8MB)

http://www.filefactory.com/file/3kxjovk0sfy9/n/Practical-H025-Variable_frequency_drive.pdf

Practical-H025-Op-amp comparator.pdf (0.76MB)

http://www.filefactory.com/file/6durnon9su67/n/Practical-H025-Op-amp_comparator.pdf

Practical-H025-Inverting amplifier.pdf (2.03MB)

http://www.filefactory.com/file/10r7jn0ceg75/n/Practical-H025-Inverting_amplifier.pdf

Microprocessor_Notes_upload.zip (16.03MB)

http://www.filefactory.com/file/1oti3kat6cib/n/Microprocessor_Notes_upload.zip

Practical-H025+H026-SCR Phase Control.pdf (1.74MB)

http://www.filefactory.com/file/57fef41m3yqp/n/Practical-H025+H026-SCR_Phase_Control.pdf

MPLAB_User_Guide_51519c.pdf (4.13MB)

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MPLAB_Integrated_Development_Environment.doc (0.33MB)

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<http://www.filefactory.com/file/6a92lwdjnc0t/basic%20logic%20gate.mht>

ONLINE PRACTICALS

6.Power Electronics Practicals

Circuit Connection Assessment Number 6-1 Class A B Rectifier

Class A-B Amplifier

http://www.filefactory.com/file/52bujy6mxnvf/n/6-1_pdf

http://www.filefactory.com/file/650fxy60dm2z/n/6_1_doc

http://www.filefactory.com/file/72af0kxilwf3/n/Class_A-B_Amplifier_pdf

[Amplifier1_2Practical](#)

[Amplifier_current_gain](#)

Circuit Connection Assessment Number 6-2 Inverting Non Inverting Amplifier

[Inverting Non inverting amplifier](#)

http://www.filefactory.com/file/3wpu100m0a1h/n/6_1_doc

http://www.filefactory.com/file/6adx40ktscin/n/6-2_pdf

http://www.filefactory.com/file/19ebzs7t83gf/n/Inverting_Non_inverting_amplifier_pdf

Circuit Connection Assessment Number 6-3 SCR Phase control

http://www.filefactory.com/file/17tuqx051l2v/n/6-3_pdf

http://www.filefactory.com/file/5fvgvka1y07/n/Practical-H025_H026-SCR_Phase_Control_pdf

http://www.filefactory.com/file/5qq2fze0fqah/n/6_3_doc

[Power Control Devices](#)

Circuit Connection Assessment Number 6-5 Inverting amplifier

http://www.filefactory.com/file/2iojycy6bf6z/n/6-5_pdf

http://www.filefactory.com/file/45732kme9l4f/n/Practical-H025-Inverting_amplifier_pdf

http://www.filefactory.com/file/j0zl13ttmed/n/6_5_doc

Circuit Connection Assessment Number 6-6 Op Amp Comparator

http://www.filefactory.com/file/1o98rt5t7qsx/n/6-6_pdf

http://www.filefactory.com/file/3mu42ptkavap/n/6_6_doc

http://www.filefactory.com/file/4bewi75grfjd/n/Practical-H025-Op-amp_comparator_pdf

Circuit Connection Assessment Number 6-7 Precision half wave rectifier

http://www.filefactory.com/file/21eqwl9rthqr/n/6-7_pdf

http://www.filefactory.com/file/406iyxvrc1eb/n/Practical-H025-Precision_half_wave_amplifier_pdf

http://www.filefactory.com/file/5rzsi012bw39/n/6_7_doc

Rectification

Circuit Connection Assessment Number 6-8 Variable frequency drive

http://www.filefactory.com/file/icwoyr7ctpv/n/6_8_doc

http://www.filefactory.com/file/6jsb8h0q6aqt/n/Variable_speed_drive_pdf

http://www.filefactory.com/file/vrdtaixekxn/n/6-8_pdf

Circuit Connection Assessment Number 6-9 Three phase rectifier

http://www.filefactory.com/file/1w2ax659q7ov/n/6_9_doc

http://www.filefactory.com/file/37wu1n67f35j/n/Practical-H026-3_phase_rectifier_pdf

http://www.filefactory.com/file/59hev8r7yoyl/n/6-9_pdf

Rectification

Circuit Connection Assessment Number 6-11 PWM

http://www.filefactory.com/file/47cqe7k6vnt7/n/Practical-H026-PWM_Practical_pdf

http://www.filefactory.com/file/bliscj4bvjr/n/6-11_pdf

http://www.filefactory.com/file/u8uibrn5135/n/6_11_doc

Circuit Connection Assessment Number 6-12 Mini Lab

http://www.filefactory.com/file/42e878f0kjgd/n/H045Day3Practical_pdf

http://www.filefactory.com/file/7hr25f7o5an9/n/6-12_pdf

http://www.filefactory.com/file/5mbfi4xigxf1/n/6_12_doc

Circuit Connection Assessment Number 6-13 Variable drive system

http://www.filefactory.com/file/7godr6j3fr7h/n/Variable_speed_drive_pdf

http://www.filefactory.com/file/3j1en9gle79f/n/6-13_pdf

http://www.filefactory.com/file/45r5k466yosd/n/6_13_doc

Circuit Connection Assessment Number 3-2 Amplifier Gain

http://www.filefactory.com/file/1ufyhhdtxvnd/n/Practical_Semester_1_A_pdf

http://www.filefactory.com/file/2xikhzj6xuzx/n/3-2_pdf

http://www.filefactory.com/file/33ntwrs3o7e3/n/3_2_xls

http://www.filefactory.com/file/57di74j6zk7p/n/3_2_doc

Circuit Connection Assessment Number 3-3 SCR

http://www.filefactory.com/file/1ufyhhtxvnd/n/Practical_Semester_1_A_pdf

http://www.filefactory.com/file/4l191vthkhdn/n/3_3_doc

http://www.filefactory.com/file/fe3dnguragi/n/3-3_pdf

Circuit Connection Assessment Number 3-6 Three Phase Rectification

http://www.filefactory.com/file/1ufyhhtxvnd/n/Practical_Semester_1_A_pdf

Rectification

http://www.filefactory.com/file/4h4d1hrfhogv/n/3_6_doc

http://www.filefactory.com/file/9bevf2n3hu1/n/3-6_pdf

Circuit Connection Assessment Number 3-7 Three Terminal Regulator

http://www.filefactory.com/file/1ufyhhtxvnd/n/Practical_Semester_1_A_pdf

http://www.filefactory.com/file/65maa6x3hkzi/n/3_7_doc

http://www.filefactory.com/file/75znot255nq7/n/3_7_xls

http://www.filefactory.com/file/1u8jqxxi95tp/n/3-7_pdf

ONLINE TESTS

H011

[H011 MCQ Practice 1](#)

[H011 MCQ Practice 2](#)

H013

[H013 MCQ Practice 1](#)

[H013 MCQ Practice 2](#)

H045

[H045 MCQ Practice 1](#)

[H045 MCQ Practice 2](#)

ONLINE TESTS MARKING

H011Test 1-----UENEEH111

http://www.filefactory.com/file/5ht8f5ih8lvr/n/H011_Online_Test_1_Answer_doc

http://www.filefactory.com/file/74ma7pvjy4un/n/H011_Online_Test_1_Question_pdf

http://www.filefactory.com/file/2twhah27ibzl/n/H011_Online_Test_1_Marking_doc

<http://www.classroomclipboard.com/503511/Home/Test/4e875e18c7bb47cfba6c48c04a7198e0#/InitializeTest.xml>

DH8JTB7

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http://www.filefactory.com/file/3e54mrgli7ft/n/H011_Online_Test_2_Question_pdf

http://www.filefactory.com/file/vucne1llwf/n/H011_Online_Test_2_Marking_doc

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65TG

H013Test 1-----UEEENEH118A

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http://www.filefactory.com/file/8mgrsb39abl/n/H013_Online_Test_1_Marking_doc

<http://www.classroomclipboard.com/503511/Home/Test/ea8db99cb2b44c49d016f6c8eee5910#/InitializeTest.xml>

SN3T84

H013Test 2-----UEEENEH118A

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http://www.filefactory.com/file/sutmaakz949/n/H013_Online_Test_2_Question_pdf

<http://www.classroomclipboard.com/503511/Home/Test/957b751abb4641cf9ae0a79176936549#/InitializeTest.xml>

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H045Test 1-----UEEENEH147A

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http://www.filefactory.com/file/43pv8gh9ctw5/n/H045_Online_Test_1_Answer_doc

http://www.filefactory.com/file/4fk3igvgik87/n/H045_Online_Test_1_Marking_doc

<http://www.classroomclipboard.com/503511/Home/Test/bd50d0b35eb241518cdddc8e23c0b593#/InitializeTest.xaml>

8S359V

H045Test 2-----UEENEEH147A

http://www.filefactory.com/file/6pxixn406w51/n/H045_Online_Test_2_Question_pdf

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http://www.filefactory.com/file/2l8j74x05iw7/n/H045_Online_Test_2_Marking_doc

<http://www.classroomclipboard.com/503511/Home/Test/f059c6212cc94ca098b61d5ef8188826#/InitializeTest.xaml>

L9UMJM6

EE115 Basic Analogue & Digital Electronics

EE116 Process Control System

Tutoring Lessons

[Lesson 1](#) [Lesson 2](#) [Lesson 3](#) [Lesson 4](#) [Lesson 5](#) [Lesson 6](#) [Lesson 7](#)

[Lesson 8](#) [Lesson 9](#) [Lesson 10](#)

Test & Assessment

http://www.filefactory.com/file/46zzpcym7uqz/n/I006_H012_Online_Test_1_Question_pdf

http://www.filefactory.com/file/4e2chw2sf343/n/I006_H012_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 followings

EE115+EE116 Files

And do the following exercises.

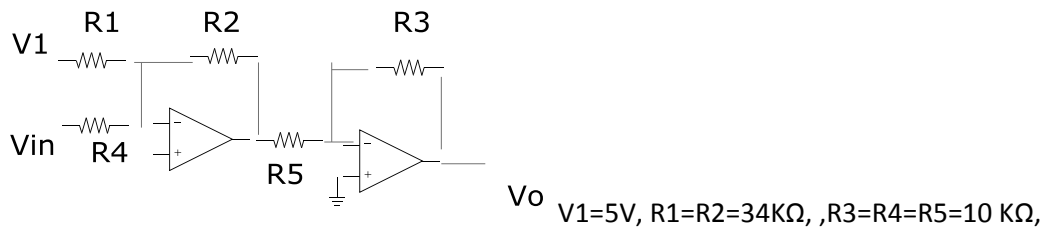
I006+ H012 Online Test

Ref501

_____ provides the operation necessary to transform the sensor output into a form necessary to interface with other elements of process control loop.

A	Analogue signal conditioning	B	Digital signal conditioning
C		D	
Answer			

Ref504



Vout for above circuit is

A	$V_{out} = 1.7 V_{in} + 5$	B	$V_{out} = 3.4 V_{in}$
C	$V_{out} = 1.7 V_{in}$	D	$V_{out} = 3.4 V_{in} + 5$
Answer			

Ref507

TTL 74LS 193 A CMOS 4035 ICs are used for

A	Parallel in / Parallel out function	B	Serial in / Parallel out function
C	Parallel in / Serial out function	D	Serial in / Serial out function
Answer			

Ref510

The number of data signal lines required for 7 segments display is

A	7	B	8
C	9	D	10
Answer			

Ref513

Events occur after the previous event is completed. The device is_____.

A	Combinational logic	B	Sequential logic
C	Synchronous logic	D	Asynchronous logic
Answer			

Ref516

$45_{10} =$

A	101101_2	B	100101_2
C	111001_2	D	101010_2
Answer			

Ref519

The device in which only one input at a time is activated to produce specific code at output is

A	Decoder	B	Encoder
C	Multiplexer	D	Demultiplexer
Answer			

Ref522

Latch can store

A	Only one bit of information	B	A number of bits at one time
C		D	
Answer			

Ref525

Decimal equivalence of 47H is

A	71	B	781
C	29	D	112
Answer			

Ref528

Temperature is measured by a sensor with output $0.02 \text{ V} / ^\circ \text{C}$. Determine ADC Reference & word size to measure 0 to 100°C resolution.

A	0.039V/ step	B	0.078V/ step
C	0.156V/ step	D	0.312V/ step
Answer			

Ref531

What is the HEX output of a bipolar 12 bit ADC with a 5 V reference for input -0.85V

A	54H	B	108H
C	27H	D	39H
Answer			

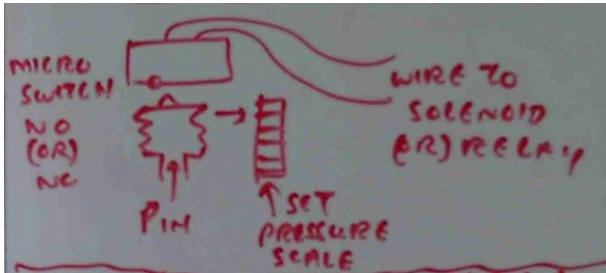
Ref534

ADC has been developed to interface with microprocessor. Data from ADC is placed on _____.
When appropriate command is issued.

A	Address bus	B	Data bus
C	Control bus	D	
Answer			

Ref537

The following is called_____.



A	Bellow operated on-off controller	B	On-off pressure control loop
C	Pneumatic force balance proportional controller	D	
Answer			

Ref540

Derivative mode

A	Stabilizes the process	B	Resets the process
C	Compensates time lag in control loop	D	
Answer			

EE209 Analogue Electronics

Tutoring Lessons

[EE209 Part 1](#) [EE209 Part 2](#) [EE209 Part 3](#) [EE209 Part 4](#) [EE209 Part 5](#)

[EE209 Part 6](#) [EE209 Part 7](#)

Test & Assessment

http://www.filefactory.com/file/5ht8f5ih8lvr/n/H011_Online_Test_1_Answer_doc

http://www.filefactory.com/file/74ma7pvjy4un/n/H011_Online_Test_1_Question_pdf

http://www.filefactory.com/file/229n33ldqwah/n/H011_Online_Test_2_Answer_doc

http://www.filefactory.com/file/3e54mrgli7ft/n/H011_Online_Test_2_Question_pdf

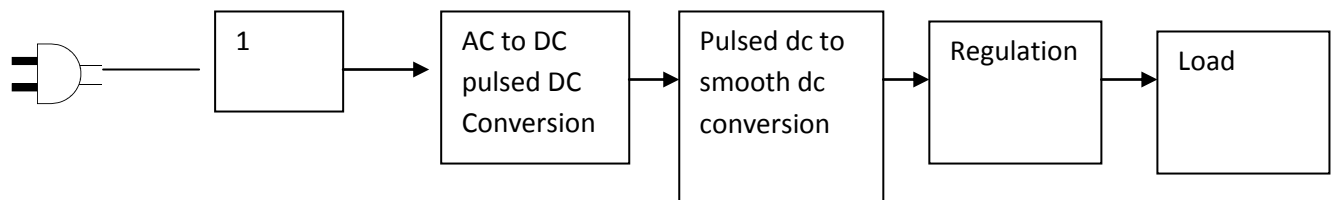
Do the tests and send the answer sheet in soft copy by e-mail to **iqytechnicalcollege@gmail.com**

Password- **iqytechnicalcollege**

Study the EE209 file notes & do the exercises

H011 Online Test

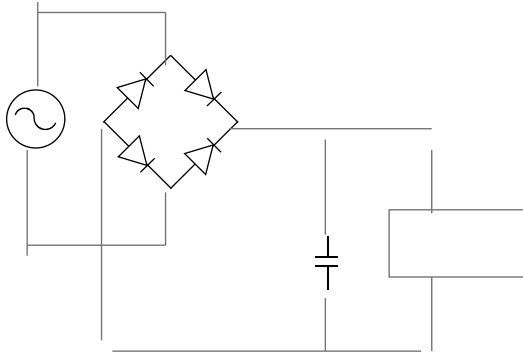
Ref435



The stage 1 is

A	DC level conversion	B	AC level conversion
C	Input sensor	D	Providing protection
Answer			

Ref436



The name of given circuit is

A	Single phase full wave rectifier	B	Single phase half wave rectifier
C	Three phase full wave rectifier	D	Three phase half wave rectifier
Answer			

Ref437

The dc output voltage produced by centre tapped transformer rectifier is

A	$V_{dc} = 0.5 V_{max}$	B	$V_{dc} = 0.73 V_{max}$
C	$V_{dc} = 0.636 V_{max}$	D	$V_{dc} = 0.707 V_{max}$
Answer			

Ref438

For bridge rectifier , ripple frequency is equal to

A	Supply frequency	B	Three times supply frequency
C	Half of supply frequency	D	Two times supply frequency
Answer			

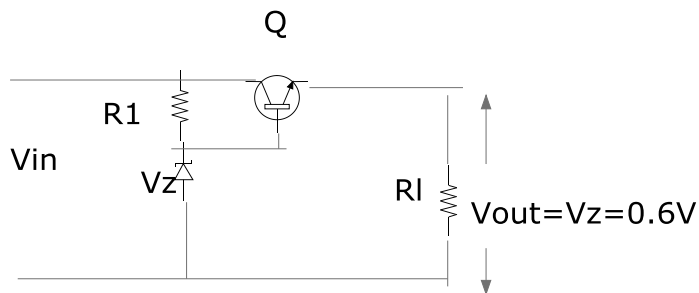
Ref439

Calculate the load resistance & capacitance size of a full wave rectifier that supplies 40V dc with 3% ripple voltage at 250mA to a resistance load. The rectifier circuit is supplied with 60HZ AC. Ripple frequency 50HZ.

A	160Ω, 31.25μF	B	320Ω, 62.5μF
C	100Ω, 10μF	D	60Ω, 15μF
Answer			

Ref440

The following circuit is



A	Shunt transistor regulator	B	Regulator with feedback
C	Operational amplifier	D	Series transistor regulator
Answer			

Ref441

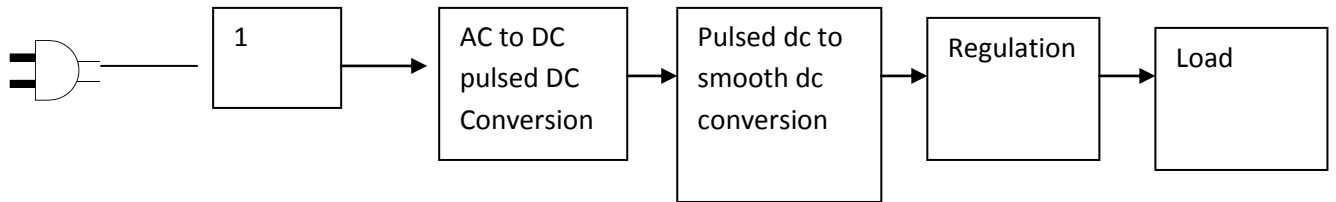
The regulator with feedback is constructed with the following values. $R_2 = 1\text{ K}\Omega$, $R_3 = 2\text{ K}\Omega$, $R_{sc} = 0.6\Omega$

Calculate power output P_d

A	30W	B	60W
C	90W	D	15W
Answer			

H011 Online Test

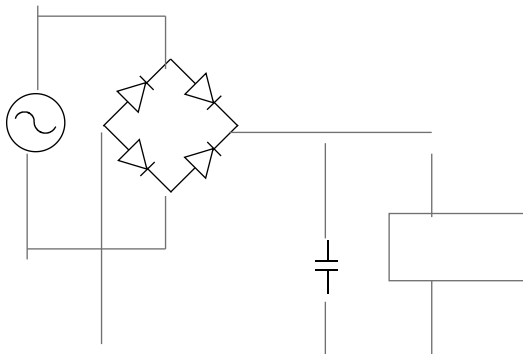
Ref435



The stage 1 is

A	AC level conversion	B	DC level conversion
C	Input sensor	D	Providing protection
Answer			

Ref436



The name of given circuit is

A	Single phase half wave rectifier	B	Single phase full wave rectifier
C	Three phase full wave rectifier	D	Three phase half wave rectifier
Answer			

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The dc output voltage produced by centre tapped transformer rectifier is

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C	$V_{dc} = 0.707 V_{max}$	D	$V_{dc} = 0.636 V_{max}$
Answer			

Ref438

For bridge rectifier , ripple frequency is equal to

A	Two times supply frequency	B	Three times supply frequency
C	Half of supply frequency	D	Supply frequency
Answer			

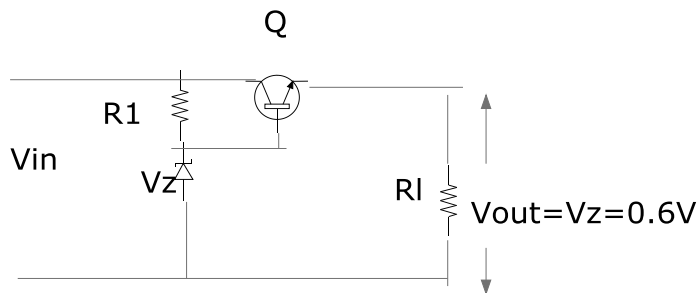
Ref439

Calculate the load resistance & capacitance size of a full wave rectifier that supplies 40V dc with 3% ripple voltage at 250mA to a resistance load. The rectifier circuit is supplied with 60HZ AC. Ripple frequency 50HZ.

A	60Ω, 15μF	B	320Ω, 62.5μF
C	100Ω, 10μF	D	160Ω, 31.25μF
Answer			

Ref440

The following circuit is



A	Shunt transistor regulator	B	Regulator with feedback
C	Series transistor regulator	D	Operational amplifier
Answer			

Ref441

The regulator with feedback is constructed with the following values. $R_2 = 1\text{ K}\Omega$, $R_3 = 2\text{ K}\Omega$, $R_{sc} = 0.6\Omega$

Calculate power output Pd

A	90W	B	60W
C	30W	D	15W
Answer			

