

Instruction to students

All lessons & teaching notes are to be downloaded from

www.advancedelectricaldiploma.zoomshare.com

Study Option (1)

Guided study (Online)Resources+ Online exercises+ Online Practicals Click [HERE](#)-

Also resources can be downloaded from the backup site **Study Option 1 Back up** <http://onlineclass1.zoomshare.com/>

Study Option (2)

Self study (Online) Resources+ Reference materials & Notes Click www.1790817794.zoomshare.com

Study Option (3)

Guided study (Face to Face) & Video Mode

(1)Attend the class (2)Take part in practicals (3)Sit the examination(4)Study the video lessons in the following link

<http://www.electricallessonvideos.zoomshare.com> Then the resources can be downloaded from

Electrical Lesson Videos

To download all Video files

<http://www.filefactory.com/file/c0b627a/n/electricallessonvideosV2.htm> The file that is not available can be downloaded from **Study Option 3 Back up** <http://uploading.com/files/99caa72e/Electricallessonvideos>

OR

<http://uploading.com/files/99caa72e/Electricallessonvideos>

Practicals (All students need to submit compulsory online practical assignments)

Click [HERE](#) to download practicals

Online Exercises

Click [HERE](#) to download G037+G038+G039+E046 Exercises, Click [HERE](#) to download other Exercises

Updated links & sites

[Physics Part 2](#) [1790817794Backup](#) [References](#) (Printed notes for all electrical units) (If file is not available , it can be downloaded from Reference Printed Lesson Back up for

[Electrical Risk Assessment](#) [Project Specification 2](#) [Power Project 2](#)

Business Units BSBFLM 503+506+509+510+512Online Lessons (Link to download the business units study resources) **Business Unit Assignments**

Back up site for www.filefactory.com lessons (Study option 2 and 3).htm

Study Option 1 and 3 Back up site for www.filefactory.com

Study Option 1 Back up <http://onlineclass1.zoomshare.com/>

Study Option 3 Back up <http://uploading.com/files/99caa72e/Electricallessonvideos>

Reference Printed Lesson Back up for

[Electrical Risk Assessment](#) [Project Specification 2](#) [Power Project 2](#)

WORK PERFORMANCE (PRACTICAL)

Electrical Workshop

E001+E002+E003+E004+E005+E007+E008+E033 +E101/2/3/4/5/7/8/ E137 ----- Practical/ Workshop class

(3)Compulsory Practicals

The following online practicals are required to do for the units apart from the above list.

3-1 DC Variable Speed Drive, 3-2 Amplifier Gain, 3-3 SCR, 3-4 Over Current Relay, 3-5 Rectifier, 3-6 Three Phase Rectification, 3-7 Three Terminal Regulator, 3-8 Current to Voltage Transducer, 3-9 Effect of transformer on power line, 3-10 Tee and Pi Equivalent Line,3-11 Variable dc drive with rectifier, 3-13+3-14 Three Phase Power Measurement

(4) Power System Practicals

The following online practicals are required to do for G015+G042+G037+G038+G039+G040+G046 units

4-1 CT PT Ratio , 4-2 Watt meter Real Power, 4-3 Line air capacitance, 4-4 Inductive reactance of series coil, 4-5 Line insulator capacitance, 4-6 Load centre, 4-7 Over current relay, 4-8 UG Cable capacitance, 4-9 Voltage profile chart, 4-10 Pi & Tee network, 4-11 Transformer effect on line losses, 4-12 Transformer OCT SCT Test, 4-13 Transformer polarity test

(5)Electrical Machine Drive Magnetics Practicals

The following online practicals are required to do for G001+G002+G043+G044+G045+G010+A010+G036+G006+G035+G101+G102 units

5-1 Motor winding impedance, 5-2 Motor polarity, 5-3 DC Generator characteristics test, 5-4 Three phase motor speed measurement, 5-5 Coil inductance, 5-6 Mutual inductance, 5-7 CT PT Power system measurement, 5-8 Power transformer regulation, 5-9 Transformer connection, 5-10 Transformer OCT SCT, 5-11 Variable speed drive

(6)Power Electronics Practicals

The following online practicals are required to do for H025+H026+H045+H011+H013+H039+I008+I020 units.

6-1 Class A B Rectifier, 6-2 Inverting Non Inverting Amplifier, 6-3 SCR Phase control, 6-5 Inverting amplifier, 6-6 Op Amp Comparator, 6-7 Precision half wave rectifier, 6-8 Variable frequency drive, 6-9 Three phase rectifier, 6-10 Three terminals regulator, 6-11 PWM, 6-12 Mini Lab, 6-13 Variable drive system

(7)Process control practicals

The following online practicals are required to do for I001+I002+I003+I004+I005+I006+I008+I020 units.

7.1, 7.2, 7.3, 7.4

(8)Renewable Energy Practicals

8.1, 8.2

(9)Electrical Fundamental Practicals

The following online practicals are required to do for E025+E029+E046+G047+G048+G049+G012+E082+E125+G149+G033 +G101+G102+E081A units.

9-1 PF Measurement, 9-2 Three Phase Unbalanced Load, 9-3 Maximum power transfer theorem, 9-4 Series RLC Circuit, 9-5 Super position theorem, 9-7 Star Delta Load

The practicals can be done as follows

1. Study the circuit & equipment connection diagrams as per instruction Word file in the folders with practical names
2. Sketch the connection diagram on the worksheets.
3. Enter the data into Excel worksheet & plot the graph designed by Excel program
4. Submit the connection diagram worksheet & the graph.