MASTER OF SCIENCE (RENEWABLE ENERGY) LEARNING SUPPORT WEBSITE

Part (1) Preliminary Course

ENEGY101A FOUNDATION STUDIES IN RENEWABLE ENERGY AND SUSTAINABILITY

RE001 Audio.zip (398.77MB)
http://www.filefactory.com/file/bivi3ahp1dj/n/RE001_Audio.zip
RE001+ENERGY 101A.pptx (209.26MB)
http://www.filefactory.com/file/2uf9ao1a2vlb/n/RE001+ENERGY_101A.pptx

AEEGY202A RENEWABLE ENERGY RESOURCES ANALYSIS

AEEGY202A+RE005 Part 1.ppt (53.86MB)
http://www.filefactory.com/file/77y5i78hdzcn/n/AEEGY202A+RE005_Part_1.ppt

AEEGY202A+RE005 Part 1 Audio.zip (41.66MB)
http://www.filefactory.com/file/3bpvzmy8xbzd/n/AEEGY202A+RE005_Part_1_Audio.zip

AEEGY202A+RE005 Part 2.pptx (39.15MB) (A)
http://www.filefactory.com/file/64zy2zn488hz/n/AEEGY202A+RE005_Part_2.pptx

AEEGY202A+RE005 Part 2 Audio.zip (45.64MB) (A)
http://www.filefactory.com/file/28ezfxr81nrd/n/AEEGY202A+RE005_Part_2_Audio.zip

AEEGY202A+RE005 Part 2B.pptx (93.09MB)
http://www.filefactory.com/file/64klwvxw0ihr/n/AEEGY202A+RE005_Part_2B.pptx

AEEGY202A+RE005 Part 2B Audio.zip (81.25MB)
http://www.filefactory.com/file/5bj0lat5uj9n/n/AEEGY202A+RE005_Part_2B_Audio.zip

AEEGY202A+RE005 Part 3.pptx (118.93MB)
http://www.filefactory.com/file/2p5ermf05afl/n/AEEGY202A+RE005_Part_3.pptx

AEEGY202A+RE005 Part 3 Audio.zip (64.72MB)
http://www.filefactory.com/file/4i49w8o1jl9h/n/AEEGY202A+RE005_Part_3_Audio.zip

AEEGY202A+RE005 Part 4.pptx (123.38MB)
http://www.filefactory.com/file/sbvdq1ehtr9/n/AEEGY202A+RE005_Part_4.pptx

AEEGY202A+RE005 Part 4 Audio.zip (59.74MB)
http://www.filefactory.com/file/9y5u1pmai6v/n/AEEGY202A+RE005_Part_4_Audio.zip

AEEGY202A+RE005 Part 5.pptx (198.14MB)
http://www.filefactory.com/file/56apturehhrt/n/AEEGY202A+RE005_Part_5.pptx

AEEGY202A+RE005 Part 5 Audio.zip (109.2MB)
http://www.filefactory.com/file/4ta6mux5uzk7/n/AEEGY202A+RE005_Part_5_Audio.zip

AEEGY202A+RE005 Part 5a.pptx (181.83MB)
http://www.filefactory.com/file/4o9q6qr2xr0r/n/AEEGY202A+RE005_Part_5a.pptx

AEEGY202A+RE005 Part 5a Audio.zip (82.43MB)
http://www.filefactory.com/file/13akyrczg9tf/n/AEEGY202A+RE005_Part_5a_Audio.zip

AEEGY202A+RE005 Part 6.pptx (140.55MB)
http://www.filefactory.com/file/6ecfxxbaih11/n/AEEGY202A+RE005_Part_6.pptx

AEEGY202A+RE005 Part 7.pptx (37.26MB)
http://www.filefactory.com/file/6kw4yv0yd4lh/n/AEEGY202A+RE005_Part_7.pptx

AEEGY202A+RE005 Part 7 Audio.zip (12.28MB)
http://www.filefactory.com/file/44xii255egpr/n/AEEGY202A+RE005_Part_7_Audio.zip

AEEGY202A+RE005 Part 6 Audio.zip (56.4MB)
http://www.filefactory.com/file/31cfsc70cqn7/n/AEEGY202A+RE005_Part_6_Audio.zip

AEEGY 203A WIND ENERGY CONVERSION SYSTEM

AEEGY202A+RE005 Part 4.pptx (123.38MB)
http://www.filefactory.com/file/sbvdq1ehtr9/n/AEEGY202A+RE005_Part_4.pptx

AEEGY 201A ENERGY STORAGE SYSTEM

AEEGY201A-RE004 Part 1.pptx (84.17MB)
http://www.filefactory.com/file/3zjf4agidtd1/n/AEEGY201A-RE004_Part_1.pptx

AEEGY201A-RE004 Part 1 Audio.zip (98.34MB)
http://www.filefactory.com/file/2cq8kk74lcch/n/AEEGY201A-RE004_Part_1_Audio.zip

AEEGY201A-RE004 Part 2 Audio.zip (78.24MB)
http://www.filefactory.com/file/59f24emes5d5/n/AEEGY201A-RE004_Part_2_Audio.zip

AEEGY201A-RE004 Part 2.pptx (81.12MB)
http://www.filefactory.com/file/593fqr2l92gl/n/AEEGY201A-RE004_Part_2.pptx

AEEGY201A-RE004 Part 3.pptx (122.11MB)
http://www.filefactory.com/file/3sb7u9ni7bx1/n/AEEGY201A-RE004_Part_3.pptx

AEEGY201A-RE004 Part 3 Audio.zip (54.66MB)
http://www.filefactory.com/file/99lsa2qr9j1/n/AEEGY201A-RE004_Part_3_Audio.zip

AEEGY 102A SOLAR AND THERMAL ENERGY SYSTEM

AEEGY102A-Solar & Thermal Energy System-RE003 Part 1.pptx (86.74MB)
http://www.filefactory.com/file/4pfhys6r4f5v/n/AEEGY102A-Solar_&_Thermal_Energy_System-RE003_Part_1.pptx

AEEGY102A Solar & thermal Energy system-RE003 Audio Part 1.zip (78.57MB)
http://www.filefactory.com/file/3g7xyhh758iv/n/AEEGY102A_Solar_&_thermal_Energy_system-RE003_Audio_Part_1.zip

AEEGY102A Solar & thermal Energy system-RE003 Audio Part 2.zip (114.71MB)
http://www.filefactory.com/file/6j6d6ba68kmt/n/AEEGY102A_Solar_&_thermal_Energy_system-RE003_Audio_Part_2.zip

AEEGY102A Solar & thermal Energy system-RE003 Audio Part 3.zip (101.76MB)
http://www.filefactory.com/file/6fpzm5yhalkb/n/AEEGY102A_Solar_&_thermal_Energy_system-RE003_Audio_Part_3.zip

AEEGY 101A GRID CONNECTED PHOTOVOLTAICS POWER SYSTEM

AEEGY101A Grid Connected Inverter-RE001 Part 1.pptx (200.1MB)
http://www.filefactory.com/file/7gj00wjnbhgl/n/AEEGY101A_Grid_Connected_Inverter-RE001_Part_1.pptx

AEEGY101A Grid Connected Inverter-RE001 Part 2.pptx (42.84MB)
http://www.filefactory.com/file/2inbe45j7daf/n/AEEGY101A_Grid_Connected_Inverter-RE001_Part_2.pptx

AEEGY101A Grid Connected PV Power System-RE002 Audio 1.zip (87.52MB)
http://www.filefactory.com/file/zugaz0yoa7z/n/AEEGY101A_Grid_Connected_PV_Power_System-RE002_Audio_1.zip

AEEGY101A Grid Connected PV Power System-RE002 Audio 2.zip (146.66MB)
http://www.filefactory.com/file/3rnl5ra5u1yp/n/AEEGY101A_Grid_Connected_PV_Power_System-RE002_Audio_2.zip

AEEGY101A Grid Connected PV Power System-RE002 Audio 3.zip (37.72MB)
http://www.filefactory.com/file/4t3e8rcrzcpp/n/AEEGY101A_Grid_Connected_PV_Power_System-RE002_Audio_3.zip

AEEGY 204 A ENERGY EFFICIENCY

AEEGY204A-Energy Effcy.pptx (308.2MB)
http://www.filefactory.com/file/4m2zxs94ooyh/n/AEEGY204A-Energy_Effcy.pptx

AEEGY204A-Energy Syst Effcy-RE007 Audio.zip (283.59MB)
http://www.filefactory.com/file/64pi797xv52t/n/AEEGY204A-Energy_Syst_Effcy-RE007_Audio.zip

ENEGY101A FOUNDATION STUDIES IN RENEWABLE ENERGY AND SUSTAINABILITY

Course Outline

In this subject you will learn about the areas of renewable energy technologies and sustainability. You will develop foundation knowledge relating to:

- Defining sustainability and renewable energy
- Non-technical issues in sustainability and renewable energy
- Energy basics efficiency and calculations
- Solar energy systems
- Wind energy systems
- Hydro energy systems
- Biomass energy systems
- Ocean energy systems
- Principles of sustainable living
- Moving to a sustainable economy.

Prescribed Texts:

Mackay, D.J.C. 2008, *Sustainable Energy without the Hot Air*, UIT, Cambridge, England

Study Guide

WEEK NO:	TOPICS AND ACTIVITIES
Orientation Week	**Orientation activities** Review of syllabus and assessment activities.
Week 1	• Introduction to the Subject. • The cause of Climate Change. • Global and Australian Figures. • Climate Change - The Impacts and the imperative for change. **Reading List:** • *Sustainable Energy Without the Hot air,* pp. 5-18 • *ZCA Stationary Energy Plan*, pp. 2-3
Week 2	• Energy use in Australia. • Energy conversion and efficiency. • Primary, Secondary and End Use energy. **Reading List:** • Dept. of Energy Resources and Tourism, *Energy in Australia 2012,* pp. 15-28
Week 3	• Coal, Oil, Gas and Nuclear Energy Systems. **Reading List:** • Course notes
Week 4	• Solar Energy Systems – The Solar Resource – Photovoltaics. **Reading List:** • *Sustainable Energy Without the Hot air,* pp. 38-49
Week 5	**Field Trip** • Solar Energy Systems - Solar Hot Water, Solar Air conditioning and Solar Thermal Electricity. **Reading List:** • *Sustainable Energy Without the Hot air,* pp. 38-49 • *ZCA Solar Thermal Power Basics and Solar Thermal Power fact sheets*
Week 6	• Wind Energy Systems – size of the resource, principles of operation, World and Australian wind energy. **Reading List:** • *Sustainable Energy Without the Hot air,* pp. 32-34, 186-189 • *Clean Energy Council Fact sheet on Wind Energy* **Assessment 1 due: Individual written report - 10%**
Week 7	
Week 8	• Hydro Energy Systems – size of the resource, principles of operation, World and Australian Hydro energy. **Reading List:**

WEEK NO:	TOPICS AND ACTIVITIES
	• *Sustainable Energy Without the Hot air,* pp. 55-56 and pp. 190-194 • *Clean Energy Council Fact sheet on Hydro Electricity* **Assessment 2 due: Written report on field trip - 5%**
Week 9	• Biomass • Geothermal **Reading List** • *Clean Energy Council Fact sheet on Geothermal Energy* • *Clean Energy Council Fact sheet on Bio Energy* • *Sustainable Energy Without the Hot air,* pp. 96-99
Week 10	• Ocean Energy – Wave and tidal **Reading List:** • *Sustainable Energy Without the Hot air,* pp. 73-75; pp. 81-87; pp. 307-321 • *Clean Energy Council Fact sheet on Marine Energy*
Week 11	• The imperative for Sustainability • Moving to Renewable Energy **Reading List:** • *Less is More,* pp. 205-235
Week 12	• Sustainable Building Design • Sustainable Food and Farming **Reading List:** • *Sustainable Energy Without the Hot air,* pp. 76-80 • www.yourhome.gov.au *Technical Manual,* pp. 69-127
Week 13	• Sustainable Transport • Sustainable Mining and Manufacturing **Reading List:** • *Sustainable Energy Without the Hot air,* pp. 29-31; 35-37; 118-139; 88-95 and 322-326 • *ZCA Stationary Energy Plan*, pp. 16-19 **Assessment 3 due: Collaborative written report – 30%** **Assessment 4: Presentation based on collaborative written report – 10%**
Week 14	**Study Week**
Week 15	**Examination Week B:** **Assessment 5: Written examination - 45%**

Lesson Power Points

http://www.filefactory.com/file/29b5cjy28f4p/RE001%2BENERGY%20101A.pdf

Password- Joe2013

Textbook

Prescribed Texts:

Mackay, D.J.C. 2008, *Sustainable Energy without the Hot Air*, UIT, Cambridge, England

http://www.filefactory.com/file/1ptdekissa69/Sustainable_energy_without_hot_air_pdf

Password- Joe2013

Tutorial Exercises

Further Readings

K131

http://www.filefactory.com/file/7hvv22gtz2lx/n/K131_zip

http://www.filefactory.com/file/1mr75xfm92ux/n/K032_zip

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AEEGY 101A Grid Connected Photovoltaics Power System

Course Outline

In this subject you will learn the basics about photovoltaics and grid design. You will develop knowledge and applied skills relating to:

- Solar geometry
- Solar radiation terms and measurements
- Photovoltaic cell and module characteristics
- Manufacture of photovoltaic modules
- Photovoltaic array design and characteristics
- Effects of tilt, orientation, temperature and shading
- Workplace health and safety standards, Australian and industry standards
- Inverter principles and requirements for grid-connected inverters in Australia
- Inverter and Array matching
- Wiring, Protection and Earthing
- Metering and Tariff arrangements
- Installation and Commissioning
- Maintenance.

Study Guide

Lesson Power Points

http://www.filefactory.com/file/5u2urjc3d0hx/AEEGY101A%20Grid%20Connected%20Inverter-RE001%20Part%201.pdf

Password- Joe2013

Textbook

Prescribed Texts:

Stapleton G & Neill S 2012, *Grid-Connected Solar Electric Systems*, Earthscan, Abingdon, Oxon

http://www.filefactory.com/file/14nwysld3g7t/Grid_Connected_Electrical_System_Textbook_pdf

http://www.filefactory.com/file/4lmptse2xmp1/Applied_Photovoltaics_pdf

http://www.filefactory.com/file/55cxpfou1kwt/Control_of_Power_Inverters_in_Renewable_Energy_and_Smart_Grid_Integration_pdf

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Tutorial Exercises

http://www.filefactory.com/file/59rpcqogl8ux/n/K035_Answer_sheet_doc

http://www.filefactory.com/file/6uye10nst3ad/n/K035_Test_pdf
Password- joe2013

Further Readings

K035Inverter K035PV_Inverter

Stage 4 Part 17.zip

http://www.filefactory.com/file/c0cc76b/n/Stage_4_Part_17.zip

K035_Tutorials.zip
Stage 4 Part 16.zip

http://www.filefactory.com/file/c0cc703/n/Stage_4_Part_16.zip

Renewable Energy-K025+K035.zip

http://www.filefactory.com/file/c0b7c5e/n/Renewable_Energy-K025_K035.zip

Video Lessons

K035 Lesson 1-Inverter principle.zip

http://www.filefactory.com/file/c0b6a01/n/K035_Lesson_1-Inverter_principle.zip

K035 Lesson 2-Modified sine wave inverter.zip

http://www.filefactory.com/file/c0b6a26/n/K035_Lesson_2-Modified_sine_wave_inverter.zip

K035 Lesson 3-Pulse width modulation.zip

http://www.filefactory.com/file/c0b6a33/n/K035_Lesson_3-Pulse_width_modulation.zip

K035 Lesson 4-PV Inverter.zip

http://www.filefactory.com/file/c0b6a6c/n/K035_Lesson_4-PV_Inverter.zip

K035 Lesson-5 MOSFET Driver.zip

http://www.filefactory.com/file/c0b5978/n/K035_Lesson-5_MOSFET_Driver.zip

K035 Lesson-6 PWM Inverter.zip

http://www.filefactory.com/file/c0b6ac2/n/K035_Lesson-6_PWM_Inverter.zip

K035 Lesson-7 Grid Connected Inverter.zip

http://www.filefactory.com/file/c108253/n/K035_Lesson-7_Grid_Connected_Inverter.zip

K035 Lesson-8 Inverter Power Flow Model.zip

http://www.filefactory.com/file/c0b6aff/n/K035_Lesson-8_Inverter_Power_Flow_Model.zip

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Online Practicals

Practicals Work performance and practical instruction

Click HERE to download practicals

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OTHER RESOURCES

K025 Resources

Stage 2 Part 5.zip
http://www.filefactory.com/file/c0cc187/n/Stage_2_Part_5.zip
Protection_1
Protection_2
PV_System_installation_Overview_-_PV_Power_Systems
PVSoftware
Regulatory_Requirement
SPS_Components

Stage 2 Part 2A.zip
http://www.filefactory.com/file/c0cca4a/n/Stage_2_Part_2A.zip
Electrical_safe_working
Electrical_trade_review_questions_and_answers
ELV_Accessories_-_SPS_Components
ELV_Cable_termination

Stage 3 Part 1B.zip
http://www.filefactory.com/file/c0ccc42/n/Stage_3_Part_1B.zip
Cable_CktProt_E_Accessories

Cable_Conduit_E_Accessories

AEEGY 102A Solar and Thermal Energy Systems

Course Outline

In this subject you will learn about solar and thermal energy systems. You will develop specialised knowledge and applied skills relating to:

- Solar energy utilisation - introduction and overview
- Heating load calculations
- Thermal environment – solar radiation, shading and energy conservation
- Solar collectors
- Collector requirements for some specific applications
- Thermal energy storage
- Solar cooling
- Mechanical Power generation
- Sizing of heating, cooling and mechanical power generation components
- Ancillary equipment
- Equipment specification and installation
- Performance analysis.

Study Guide

Lesson Power Points

Part 1

http://www.filefactory.com/file/c9acnzqhs13/AEEGY102A%2BRE003%20Part%202-ME108.pdf

Part 2

http://www.filefactory.com/file/2i3h1v6qqkuv/AEEGY102A%2BRE003%20Part%203-Fact_sheet_-_Geothermal_Energy.pdf

Part 3

http://www.filefactory.com/file/57k90jem46f/AEEGY102A-Solar%20%26amp%3B%20Thermal%20Energy%20System-RE003%20Part%201.pdf

Password- **Joe2013**

Textbook

Prescribed Texts

The German Solar Energy Society, 2009 *Planning and Installing Solar Thermal Systems*, Earthscan (UK) All Chapters

http://www.filefactory.com/file/39q0d0rb9t7h/185936187-Planning-and-Installing-Solar-Thermal-Systems_pdf

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Tutorial Exercises

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Further Readings

K025_Note_1
K025_Note_2

Stage 2 Part 4.zip

http://www.filefactory.com/file/c0ccb53/n/Stage_2_Part_4.zip

K025 Resources

ELV_Accessories_-_SPS_Components

ELV_Cable_termination

Stage 2 Part 2A.zip

http://www.filefactory.com/file/c0cca4a/n/Stage_2_Part_2A.zip

PV_System_installation_Overview_-_PV_Power_Systems

SPS_Components

PVSoftware

Stage 2 Part 5.zip

http://www.filefactory.com/file/c0cc187/n/Stage_2_Part_5.zip

System_Installation_Examples_-_NUER02_version

Stage 2 Part 6.zip

http://www.filefactory.com/file/c0cccc0/n/Stage_2_Part_6.zip
Renewable Energy-K025+K035.zip
http://www.filefactory.com/file/c0b7c5e/n/Renewable_Energy-K025_K035.zip

Lesson 1 **Lesson 2** **Lesson 3** **Lesson 4** **Lesson 5** **Lesson 6**

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Online Practicals

Practicals Work performance and practical instruction

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AEEGY 201A Energy Storage System

Course Outline

In this subject you will learn about energy storage systems. You will develop specialised knowledge and skills relating to:

- The need for and benefits of energy storage technologies
- Current energy storage technologies and their application
- Environmental impacts and benefits of energy storage systems
- Designing an energy storage system for specific engineering applications
- Costing and payback of energy storage systems
- Designing and building a small scale energy storage system.

Study Guide

Lesson Power Points

Part 1
http://www.filefactory.com/file/68whdsdbwtfh/AEEGY201A-RE004%20Part%201.pdf

Part 2

http://www.filefactory.com/file/gh1dls7edlp/AEEGY201A-RE004%20Part%202.pdf

Part 3
http://www.filefactory.com/file/48jt93opz4b5/AEEGY201A-RE004%20Part%203.pdf

Password- **Joe2013**

Textbook

Prescribed Texts:

Brunet, Y, 2010, *Energy Storage*, John Wiley & Sons UK.

http://www.filefactory.com/file/56ymtb4pptz1/Energy%20Strorage.pdf

Other Related book

http://www.filefactory.com/file/2wpc2idmobv9/Energy_Stroage_pdf

http://www.filefactory.com/file/3poecuxu7yxb/energy-in-australia-2012_pdf

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Tutorial Exercises

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Further Readings

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Online Practicals

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AEEGY202A Renewable Energy Resources Analysis

Course Outline

In this subject you will learn about renewable energy resource analysis. You will develop specialised knowledge and skills relating to:

- National and international trends in renewable energy resource analysis
- Energy history
- Australian Renewable Energy reserves
- Energy and power conversion
- Behavioural trends and misconceptions
- Power Cycles
- Oil, coal and natural gas
- Solar photovoltaics
- Solar thermal
- Wind Energy
- Hydro-power
- Bio-mass
- Geo-thermal
- Ocean energy
- Hydrogen Economy
- Limitations in existing infrastructure.

Study Guide

Lesson Power Points

Part 1

http://www.filefactory.com/file/2248bo0gcbor/AEEGY202A%2BRE005%20Part%201.pdf

Part 2

http://www.filefactory.com/file/5us491ooh1cl/AEEGY202A%2BRE005%20Part%201.pdf

Part 3

http://www.filefactory.com/file/5e3gt7cv1rid/AEEGY202A%2BRE005%20Part%202.pdf

Part 4

http://www.filefactory.com/file/5ld0bqgs3049/AEEGY202A%2BRE005%20Part%202.pdf

Part 5

http://www.filefactory.com/file/47m4fhje9k73/AEEGY202A%2BRE005%20Part%203.pdf

Part 6

http://www.filefactory.com/file/5mfsxsln72ll/AEEGY202A%2BRE005%20Part%203.pdf

Part 7

http://www.filefactory.com/file/26efv2p36hpf/AEEGY202A%2BRE005%20Part%204.pdf

Part 8

http://www.filefactory.com/file/4szjlkhva34t/AEEGY202A%2BRE005%20Part%204.pdf

Part 9

http://www.filefactory.com/file/5n4ixwsih1vb/AEEGY202A%2BRE005%20Part%205.pdf

Part 10

http://www.filefactory.com/file/7jb0atgu4xst/AEEGY202A%2BRE005%20Part%205.pdf

Part 11

http://www.filefactory.com/file/3vix5oofhjex/AEEGY202A%2BRE005%20Part%205a.pdf

Part 12

http://www.filefactory.com/file/4jt03kopqyhp/AEEGY202A%2BRE005%20Part%205a.pdf

Part 13

http://www.filefactory.com/file/23v9r0ymiy8n/AEEGY202A%2BRE005%20Part%206.pdf

Part 14

http://www.filefactory.com/file/2yyceyvo1knh/AEEGY202A%2BRE005%20Part%206.pdf

Part 15

http://www.filefactory.com/file/2qiuhz8imqjf/AEEGY202A%2BRE005%20Part%207.pdf

Part 16

http://www.filefactory.com/file/33va2juvew5b/AEEGY202A%2BRE005%20Part%207.pdf

Password- **Joe2013**

Textbook

Prescribed Text:

Boyle, G 2004, *Renewable Energy: Power for a sustainable future* 2nd or latest edition Oxford University Press

http://www.filefactory.com/file/11jwo86pxn0j/Renewable%20Energy-Power%20for%20sustainable%20Future.pdf

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Tutorial Exercises

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Further Readings

K131 + EE 308
http://www.filefactory.com/file/7hvv22gtz2lx/n/K131_zip

Additional 3.zip

http://www.filefactory.com/file/c0cb6a8/n/Additional_3.zip

Additional 1.zip

http://www.filefactory.com/file/c0cc0f7/n/Additional_1.zip

http://www.filefactory.com/file/1mr75xfm92ux/n/K032_zip

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Online Practicals

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AEEGY 203AWind Energy Conversion System

Course Outline

In this subject you will learn about wind energy conversion systems. You will develop specialised knowledge and skills relating to:

- Introduction to wind as a natural resource
- Energy, power and wind
- Wind characteristics
- Data acquisition methods
- Site characteristics
- Correlation, wind and site
- Predicting energy output
- Turbines, types and construction
- Wind Energy Conversion Systems (WECS) sizing
- Retrospective performance.

Study Guide

Lesson Power Points

http://www.filefactory.com/file/3hyoby6eqe3p/AEEGY%20203A%20%20Wind%20Energy-RE006.pdf

Password- **Joe2013**

Textbook

Prescribed Texts:

Boyle, G, 2004, *Renewable Energy: Power for a sustainable future*. 2nd edition, Oxford University Press

http://www.filefactory.com/file/11jwo86pxn0j/Renewable%20Energy-Power%20for%20sustainable%20Future.pdf

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Tutorial Exercises

Password- **joe2013**

Further Readings

ME 202 Introduction to Aero Dynamics

http://www.filefactory.com/file/401s96o982uf/n/ME_202_Introduction_to_Aero_Dynamics_pdf

ME 234 Wind Turbines

http://www.filefactory.com/file/30w0u2u36a19/n/ME_234_wind-turbines_pdf

Aerodynamics Part 1

http://www.filefactory.com/file/7axzc9j37g91/n/ME202_Part_1_zip

Aerodynamics Part 2

http://www.filefactory.com/file/2tlei8t6e4xn/n/ME202_Part_2_zip

Aerodynamics Part 3

http://www.filefactory.com/file/6mt5m5wi6dfn/n/ME202_Part_3_zip

Wind Turbine Part 1

http://www.filefactory.com/file/1f2dio8ik4zd/n/ME_234_Part_1_zip

Wind Turbine Part 2

http://www.filefactory.com/file/olr2lwjdpc5/n/ME_234_Part_2_zip

Wind Turbine Part 3

http://www.filefactory.com/file/1l7k3a3shh4f/n/ME_234_Part_3_zip

Password- joe2013

Online Practicals

Password- joe2013

AEEGY 204 A Energy Efficiency

Course Outline

In this subject you will learn about the efficiency of energy systems. You will develop specific knowledge and skills relating to:

- Energy conversion efficiencies of conventional and renewable energy systems
- Energy auditing
- Economic and environmental benefits of energy efficiency
- Energy efficiency of various energy loads
- Cogeneration (CHP)
- Pros and cons of distributed generation in terms of energy efficiency
- Ways to improve energy efficiency at the generation point and in the distribution system
- Ways to improve energy efficiency at the load points.

Study Guide

Lesson Power Points

Password- Joe2013

Textbook

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Tutorial Exercises

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Further Readings

1	Building Design+Material Science-K041+E047.zip http://www.filefactory.com/file/c0b645d/n/Building_Design_Material_Science-K041_E047.zip
2	Stage 3 Part 7.zip http://www.filefactory.com/file/c0ccfc7/n/Stage_3_Part_7.zip HazardLightingPanel K041 Building Design 1 K041 Building Design 2 K041Airconditioning K041Energy Management Textbook Stage 3 Part 3.zip http://www.filefactory.com/file/c0ccd44/n/Stage_3_Part_3.zip E047 Mech
3	As 1

4	As 2
5	**Renewable Energy+ Energy Efficiency** K041 Lesson 1-Solar Design.zip http://www.filefactory.com/file/c0b6a9f/n/K041_Lesson_1-Solar_Design.zip K041 Lesson 2-Basic psychrometric chart.zip http://www.filefactory.com/file/c0b6bc9/n/K041_Lesson_2-Basic_psychrometric_chart.zip K041 Lesson 3-Total heat resistance.zip http://www.filefactory.com/file/c0b6b18/n/K041_Lesson_3-Total_heat_resistance.zip K041 Lesson 4-U value Heat conductance calculation.zip http://www.filefactory.com/file/c0b6b57/n/K041_Lesson_4-U_value_Heat_conductance_calculation.zip K041 Lesson 5-Glazing+Net Heat gain heat loss.zip http://www.filefactory.com/file/c0b6cc2/n/K041_Lesson_5-Glazing_Net_Heat_gain_heat_loss.zip K041 Lesson 6-Shading.zip http://www.filefactory.com/file/c0b6cd7/n/K041_Lesson_6-Shading.zip K041 Lesson 7-Insulation+ Thermal mass.zip http://www.filefactory.com/file/c0b6c06/n/K041_Lesson_7-Insulation_Thermal_mass.zip

K041 Lesson 8-Thermal mass insulation.zip

http://www.filefactory.com/file/c0b6c30/n/K041_Lesson_8-Thermal_mass_insulation.zip

K041 Lesson 9-Airconditioning load calculation.zip

http://www.filefactory.com/file/c0b6dc8/n/K041_Lesson_9-Airconditioning_load_calculation.zip

K041 Lesson 10-Heat gain per day.zip

http://www.filefactory.com/file/c0b6dfe/n/K041_Lesson_10-Heat_gain_per_day.zip

K041 Lesson 11-Ventilation.zip

http://www.filefactory.com/file/c0b6d13/n/K041_Lesson_11-Ventilation.zip

K041 Lesson 12-Building heating load

http://www.filefactory.com/file/c0b6d47/n/K041_Lesson_12-Building_heating_load_calculation.zip

K041 Lesson 14-Design for Australian climate.zip

http://www.filefactory.com/file/c0b6d76/n/K041_Lesson_14-Design_for_Australian_climate.zip

K041 Lesson 15-Domestic solar hot water system.zip

http://www.filefactory.com/file/c0b6eaf/n/K041_Lesson_15-Domestic_solar_hot_water_system.zip

	K041 Lesson 16-Energy efficiency+Lighting.zip http://www.filefactory.com/file/c0b6e0f/n/K041_Lesson_16-Energy_efficiency_Lighting.zip K041 Lesson 17-Illumination+Smoke alarm.zip http://www.filefactory.com/file/c0b6fc5/n/K041_Lesson_17-Illumination_Smoke_alarm.zip K041_Lesson_18-Water_supply.zip http://www.filefactory.com/file/c0b61ec/n/K041_Lesson_18-Water_supply.zip K041_Lesson_19-Ventilation+Lighting_control.zip http://www.filefactory.com/file/c0b6058/n/K041_Lesson_19-Ventilation+Lighting_control.zip K041_Lesson_20-Electrical_system_design.zip http://www.filefactory.com/file/c0b6085/n/K041_Lesson_20-Electrical_system_design.zip K041_Lesson_21-Building_materials.zip http://www.filefactory.com/file/c0b61b8/n/K041_Lesson_21-Building_materials.zip
6	Click HERE to download other Exercises
7	**EE07 & EE011 units mapping for Theory study & Exercises**

	UEENEEK041B_E047B_Tutorials Energy_survey_assignment in Stage 3 Part 8.zip http://www.filefactory.com/file/c0ccf09/n/Stage_3_Part_8.zip
8	http://www.filefactory.com/file/3qun68epu0lp/n/Advanced_Diploma_in_Electrical_Engineering_Exercises_EE011_pdf
9	**E07 & EE011 units mapping for Theory study & Exercises** Assignment + Project work
10	K041 Text book http://www.filefactory.com/file/61dmv976e7tl/n/K041Textbook1_zip http://www.filefactory.com/file/4lsx0pk00guj/n/K041Textbook2_zip http://www.filefactory.com/file/2kwcxkrnasyf/n/K041Textbook3_zip

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Online Practicals

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Part (2) Qualified (1) Course

ENMAT 101A Engineering Materials & Processes

Course Outline

In this subject you will learn about the structure, properties and usage of a variety of materials used in engineering applications. You will develop specialised knowledge relating to:

- Material structure and properties
- Mechanical properties
- Metals - ferrous and non-ferrous
- Polymers
- Ceramics
- Composites, concrete, other
- Basic destructive testing
- Steel – FeC (Iron/Carbon), heat treatment
- Casting - perm/non-perm
- Forming - hot, cold
- Processes - PowderM, welding, Rapid Proto
- Polymer processes - IM, BM, extrus, thermoset, composites
- Joining - fasteners, weld, non-fusion
- Corrosion
- Surface treatments - plating, coatings, peening, anodising
- Non-destructive testing
- Quality assurance and control, certified testing, safety, materials safety data sheets (MSDS)
- Economic and environmental issues - production/recycling.

Study Guide

WEEK	LECTURES / EXAMINATIONS	LABORATORY	QUIZ
Orientation Week	**Orientation activities** **Review of syllabus and assessment activities. Laboratory orientation.** Academic Foundations: Note taking; study skills; introduction to conducting research.		
Week 1	**Lecture (2 hrs):** **Readings:** Ch 1: Engineering materials; Ch 2: Properties of materials.	Laboratory 1 (2 hrs): Hardness test	
Week 2	**Lecture (2 hrs):** **Readings:** Ch 3: Mechanical testing; Ch 4: The crystal structure of metals.	Laboratory 2 (2 hrs): Tensile Test	
Week 3	**Lecture (2 hrs):** **Readings:** Ch 5: Casting process; Ch 6: Mechanical deformation of metals; Ch 7: The mechanical shaping of metals.	Laboratory 3 (2 hrs): Metal Casting	**10101**
Week 4	**Lecture (2 hrs):** **Readings:** Ch 8: Alloys; Ch 9: Equilibrium diagrams; Ch 10: Practical microscopy	Laboratory 4 (2 hrs): Microscopy, Weld samples	**10102**
Week 5	**Lecture (2hrs):** **Readings:** Ch 11: Iron and steel; Ch 12: The heat-treatment of plain-carbon steels	Laboratory 5 (2 hrs): Torsion, Bending Tests	**10103**
Week 6	**Lecture (2hrs):** **Readings:** Ch 13: Alloy steels; Ch 14: The surface hardening of steels; Ch 15: Cast iron.	Laboratory 6 (2 hrs): Heat Treatment	
Week 7	**Examination Week A:** **Assessment 2: Short answer test on content from weeks 1 to 5 (Ch1 to Ch15) 15%**	**Assessment 3 due: Portfolio of Laboratory Reports 1, 2, 3 & 4 - 15%**	
Week 8	**Lecture (2hrs):** **Readings:** Ch 16: Copper and its alloys; Ch 17: Aluminium and its alloys; Ch 18: Other non-ferrous metals and their alloys.	Laboratory 7 (2 hrs): Polymer tensile test,	**10105**

WEEK	LECTURES / EXAMINATIONS	LABORATORY	QUIZ
Week 9	**Lecture (2hrs):** **Readings:** Ch 19: Plastics materials and rubbers; Ch 20: Properties of plastics.	Site Visit: e.g. Rolling Mill, Materials process/testing	
Week 10	**Lecture (2hrs):** **Readings:** Ch 21: Ceramics; Ch 22: Glasses; Ch 23: Composite materials.	Demo: Epoxy FRC, thermoforming	**10106**
Week 11	**Lecture (2hrs):** **Readings:** Ch 24: Fibre-reinforced composite materials; Ch 25: Methods of joining materials.	Laboratory 8 (2 hrs): Dye, Mag, Ultrasound	**10104**
Week 12	**Lecture (2hrs):** **Readings:** Ch 26: Causes of failure; NDT; Material Standards.	Laboratory 9 (2 hrs): Product Study	**10107**
Week 13	**Lecture (2 hrs):** **Readings:** Ch 27 Choice of Materials and Processes; Design. Economic, Environmental, Social Issues.	**Assessment 4 due:** **Collaborative Report (Product Study) 15%**	**10108**
Week 14	**Study Week**		
Week 15	**Examination Week B:** **Assessment 5:** **Written examination: 30%**	**Assessment 3 due:** **Portfolio of Laboratory Reports 5, 6, 7, 8 & 9 - 15%**	

Lesson Power Points

E081 Material Science

http://www.filefactory.com/file/pq2r36bvgnv/n/E081_Material_Science1_pdf

Non Metallic Materials

http://www.filefactory.com/file/2czhyovkn32x/n/Materials_ppt

Password- Joe2013

Textbook

Prescribed Text:

Higgins, R. & Bolton, W., 2010, *Materials for Engineers and Technicians*, 5th Edition, Butterworth Heinemann, Oxford UK. ISBN 9781856177696.

http://www.filefactory.com/file/724kx95f2ayf/27767685-Materials-Engineers- Technicians_pdf

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Tutorial Exercises

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Further Readings

Engineering Mechanics

http://www.filefactory.com/file/63sqtndrqf55/n/ME_103_Engineering_Mechanics_zip

Chemical Thermodynamics

http://www.filefactory.com/file/5ussq0pnpi4t/n/ME_207_Chemical_thermodynamics_pdf

Introduction-to-polymer-science-and-technology

http://www.filefactory.com/file/6epib0ijvbjt/n/ME_209_Introduction-to-polymer-science-and-technology_pdf

http://www.filefactory.com/file/7dhamrs5c3z7/n/ME207_zip

ME 305+ ME 209

http://www.filefactory.com/file/76fbf48z2h7j/n/ME305_ME209_zip

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Online Practicals

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ENELE 101A Principle of Electrical Engineering

Course Outline

In this subject you will learn about basic principles of electrical engineering. You will develop a range of foundation knowledge and skills relating to:

- Notation and units
- Circuit topologies

Direct current (DC) circuit principles:

- Voltage, current, power, resistance, conductance
- Ohm's Law; Kirchhoff voltage and current laws
- Series and parallel configurations
- Linearity and Superposition
- Thévenin and Norton equivalent circuits (simple cases)
- Nodal and mesh analysis (simple cases)
- Maximum power transfer
- Capacitors
- Passive and switched resistor-capacitor (RC) circuits
- Inductors
- Passive and switched resistor-inductor (RL) circuits
- Diodes

Alternating current (AC) circuit principles:

- Amplitude, frequency and phase
- Voltage
- Current and power in resistors, inductors & capacitors
- Time domain analysis of ac circuits
- Review of complex numbers
- Phasors and phasor notation
- Complex impedance and admittance
- Thévenin and Norton equivalents (simple cases)
- AC power (real, reactive, complex)
- Root-mean-square (RMS) values
- Maximum power transfer.

Study Guide

WEEK NO:	TOPICS AND ACTIVITIES
Orientation Week	**Orientation activities** Review of syllabus and assessment activities.
Week 1	**Introduction to DC Circuits** **Reading List:** Chapter 1 Sections: 1.1 – 1.5 Chapter 2 Sections: 2.1 – 2.6 & 2.9 **Text:** Dorf, R & Svoboda, J, 2010, *Introduction to Electric Circuits,* 8th Edn, John Wiley & Sons, Hoboken, NJ.
Week 2	**Kirchhoff Voltage & Current Laws** **Reading List:** Chapter 3 Sections: 3.1 – 3.6 & 3.10 **Text:** Dorf, R & Svoboda, J, 2010, *Introduction to Electric Circuits,* 8th Edn, John Wiley & Sons, Hoboken, NJ.
Week 3	**Node & Mesh Analysis** **Reading List:** Chapter 4 Sections: 4.1 – 4.3, 4.5, 4.6, 4.8, 4.13 **Text:** Dorf, R & Svoboda, J, 2010, *Introduction to Electric Circuits,* 8th Edn, John Wiley & Sons, Hoboken, NJ.
Week 4	**Superposition Principle & Source Transformation** **Thévenin & Norton Equivalent DC Circuits** **Reading List:** Chapter 5 Sections: 5.1 – 5.6 & 5.11 **Text:** Dorf, R & Svoboda, J, 2010, *Introduction to Electric Circuits,* 8th Edn, John Wiley & Sons, Hoboken, NJ.
Week 5	**Capacitors & Inductors** **Reading List:** Chapter 7 Sections: 7.1 – 7.8 & 7.13 **Text:** Dorf, R & Svoboda, J, 2010, *Introduction to Electric Circuits,* 8th Edn, John Wiley & Sons, Hoboken, NJ.
Week 6	**Passive & Switched RL & RC Circuits** **Reading List:** Chapter 8 Sections: 8.1 – 8.4, 8.6 & 8.12 **Text:** Dorf, R & Svoboda, J, 2010, *Introduction to Electric Circuits,* 8th Edn, John Wiley & Sons, Hoboken, NJ.
Week 7	**Examination Week A:** **Assessment 1: Written examination - 25%**

WEEK NO:	TOPICS AND ACTIVITIES
Week 8	**Diodes in DC Circuits** **Introduction to AC Circuits** **Reading List:** Chapter 10 Sections: 10.1 & 10.2 **Text:** Dorf, R & Svoboda, J, 2010, *Introduction to Electric Circuits,* 8th Edn, John Wiley & Sons, Hoboken, NJ.
Week 9	**AC Steady-State Analysis** **Reading List:** Chapter 10 Sections: 10.3 & 10.4 **Text:** Dorf, R & Svoboda, J, 2010, *Introduction to Electric Circuits,* 8th Edn, John Wiley & Sons, Hoboken, NJ.
Week 10	**Complex Numbers & Phasor Notation** **Reading List:** Chapter 10 Sections: 10.5 – 10.6 & 10.11 **Text:** Dorf, R & Svoboda, J, 2010, *Introduction to Electric Circuits,* 8th Edn, John Wiley & Sons, Hoboken, NJ.
Week 11	**Impedance & Admittance** **Thevenin & Norton Equivalent AC Circuits** **Reading List:** Chapter 10 Section: 10.7 & 10.10 **Text:** Dorf, R & Svoboda, J, 2010, *Introduction to Electric Circuits,* 8th Edn, John Wiley & Sons, Hoboken, NJ. **Assessment 2 Due: Portfolio and/or written report on practicum work and experiments (Laboratory Workbook) – 25%**
Week 12	**AC Power** **Reading List:** Chapter 11 Sections: 11.1 – 11.6 **Text:** Dorf, R & Svoboda, J, 2010, *Introduction to Electric Circuits,* 8th Edn, John Wiley & Sons, Hoboken, NJ.
Week 13	**Power Superposition & Maximum Power** **Reading List:** Chapter 11 Sections: 11.7 – 11.8 **Text:** Dorf, R & Svoboda, J, 2010, *Introduction to Electric Circuits,* 8th Edn, John Wiley & Sons, Hoboken, NJ.
Week 14	**Study Week**
Week 15	**Examination Week B:** **Assessment 3: Written examination – 50%**

Lesson Power Points

Week 1 Lesson

Week 2 Lesson

Week 3 Lesson

Week 3A Lesson

Video- http://www.filefactory.com/file/cf8739b/n/E003+E004.zip

Circuit Analysis

Advanced Circuit Analysis

Electro-magnetics+Electronics

Advanced Circuits+Electromagnetics+Electronics

Electrical Circuits 1

Engineering Circuit Analysis

Electrical Measurement

Folder				Electrical Circuit
				Instruction Study the notes, calculate the example problems then do the exercises numbers as indicated
Chapter	Page			Topics
				Note- PDF File page number and the page number of the scanned document may be different. The student need to check both as necessary
	27	to	52	Circuit theorem
	54	to	71	Sinusoids & phasors
	73	to	81	Frequency response

Folder				Engineering Circuit Analysis
				Instruction Study the notes, calculate the example problems then do the exercises numbers as indicated
Chapter	Page			Topics
				Note- PDF File page number and the page number of the scanned document may be different. The student need to check both as necessary
2/ 3				Basic circuits Examples 2.2, 2.3, 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.7, 3.8, 3.9, 3.10, 3.11, 3.12
4				Basic Nodal and Mesh analysis Example 4.1, 4,2, 4.3, 4.4, 4.5, 4.6, 4.7, 4.8, 4.9, 4.10, 4.11, 4.12
5				Linear and Superposition/ Source Transformation Example 5.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 5.8, 5.9,

				5.10, 5.11
8				RL/ RC Circuits Example 8.1, 8.2, 8.3, 8.4, 8.5, 8.6, 8.7, 8.8, 8.9, 8.10, 8.11
9				RLC Circuits Example 9.1, 9.2, 9.3, 9.4, 9.5, 9.6, 9.7, 9.8, 9.9
10				Sinusoidal steady state analysis Example 10.1, 10.2, 10.3, 10.4, 10.5, 10.6, 10.7, 10.8
11				AC Power Circuit Analysis Example 11.1, 11.2, 11.3, 11.4, 11.5
12				Polyphase Circuits Example 12.1, 12.2, 12.3, 12.4, 12.5, 12.6
13				Magnetically coupled circuits Example 13.1, 13.2, 13.3, 13.4, 13.5, 13.6, 13.7, 13.8
14				Complex Frequency / Laplace Transform Example 14.1, 14.2, 14.3, 14.4, 14.5, 14.6, 14.7, 14.8, 14.11
				Laplace Transform Table 14.1, 14.2
15				Circuit analysis in " S " domain Example 15.1, 15.2, 15.3, 15.4, 15.5, 15.6, 15.7 Pole/ Zero constellation Example 15.12, 15.13
16				Frequency Response Example 16.1, 16.2
17				Two ports network Example 17.1, 17.2, 17.3, 17.4, 17.5
18				Fourier Circuit Analysis Example 18.1 Use of symmetry theory Table 18.1 Example 18.2, 18.3
Exercise	Q328	to	Q367	of Assignment Number (23)

Folder				EE404 Electrical Measurement
				Instruction Study the notes, calculate the example problems then do the exercises numbers as indicated
Chapter	Page			Topics
				Note- PDF File page number and the page number of the scanned document may be different. The student need to check both as necessary
6	197			Measurement of inductance and capacitance
7	270			Measurement of resistance
9	352			Magnetic measurement
11	437			High voltage measurement and tesating
12	480			Location of cable fault

20	730			Measurement of power
21	771			Measurement of energy

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Textbook

Prescribed Text:

Dorf, R & Svoboda, J 2010, *Introduction to Electric Circuits*, 8th or latest edition, John Wiley & Sons, Hoboken, NJ.

http://www.filefactory.com/file/626gk4lkg37z/Introduction_to_Electric_Circuits_8th_Edition_by_Richard_C_Dorf_amp_James_A_Svoboda_pdf

http://www.filefactory.com/file/7kaiz26cy6vf/LabView_pdf

http://www.filefactory.com/file/2rrdma1udpkv/Principles_and_Applications_of_Electrical_Engineering_pdf

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Tutorial Exercises

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Further Readings

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Online Practicals

Practicals Work performance and practical instruction

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ENELE201A Advanced Electrical Engineering

Course Outline

In this subject you will build on basic engineering knowledge gained in previous sub and develop further knowledge and skills relating to electrical engineering:

Circuit analysis:

- DC and AC Network theorems (Kirchhoff's, Superposition)
- Resonance
- Magnetically coupled circuits

Communications and signalling processing and applications:

- Analogue and digital communications principles
- Filters
- Amplifiers and attenuators
- Communication protocols

Analogue and digital communication systems and control circuits:

- Telemetry and monitoring systems
- Control systems and applications.

Study Guide

Lesson Power Points

Electromagnetics

Electromagnetics 1

http://www.filefactory.com/file/f8hx3kz5gd1/n/BAE407_Wk_1_zip

Electromagnetics 2

http://www.filefactory.com/file/40r0fd3sta2p/n/BAE407_Wk_2_zip

Electromagnetics 3

http://www.filefactory.com/file/snre8qvw3j5/n/BAE407_Wk_3_zip

Circuits

Circuit 1

http://www.filefactory.com/file/65j9pisrtg0j/n/BAE405_Wk_1_zip

Circuit 2

http://www.filefactory.com/file/1o71eepje7up/n/BAE405_Wk_2_zip

Circuit 3

http://www.filefactory.com/file/1mm2f82zqhix/n/BAE405_Wk_3_zip

http://www.filefactory.com/file/3spcgz270krb/BAE405_Wk_3a.zip

Password- **Joe2013**

Textbook

Prescribed Texts:

Rizzoni, G & Hartley, T 2007, *Principles and Applications of Electrical Engineering*, 5th or latest edition, McGraw-Hill Companies Inc. USA

Recommended Readings:

Nahvi, M (Ed) & Edminister, J (Ed) 2011, *Schaum's Outline of Electric Circuits*, McGraw-Hill Companies Inc. USA

All About Circuits 2012, viewed 8 May 2012, http://www.allaboutcircuits.com/

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http://www.filefactory.com/file/70zpg419d9mf/_Rizzoni_G_Principles_and_Applications_of_Electr_Bookos_org_pdf

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Tutorial Exercises

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Further Readings

Stage 2 Part 3.zip

http://www.filefactory.com/file/c0ccb1f/n/Stage_2_Part_3.zip
E025_Circuits_1 E025_Circuits_2
Stage 3 Part 2.zip

http://www.filefactory.com/file/c0ccdbc/n/Stage_3_Part_2.zip
E025_Tutorial

Stage 2 Part 2A.zip

http://www.filefactory.com/file/c0cca4a/n/Stage_2_Part_2A.zip

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Online Practicals

Practicals Work performance and practical instruction

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ENELE202A Principle of Electrical Machines

Course Outline

In this subject you will learn basic principles of electrical machinery. You will develop specialised knowledge and skills relating to:

Transformers:

- Transformer Principles and Construction
- Efficiency
- Impedance
- Equivalent circuit
- Polarity
- Vector groups
- Parallel operations
- Special Transformers (Auto and Instrument etc)

Induction Motors:

- Principle of Induction Motor
- Construction and operation of Squirrel Cage Induction Motors (SCIM) and Wound Rotor Induction Motors (WRIM)
- Operation and characteristics
- Induction Generator
- Single Phase Induction Motor

Synchronous Machines:

- Principles of operation
- Characteristics
- Motors
- Alternators

DC Machines:

- Principles of operation
- Shunt Series Compound Machines
- Characteristics

Single Phase and Special Motors:

- Split Phase motor
- Capacitor Sturt/Run motor

- Shaded Pole motor
- Universal motor
- Hysteresis motor
- Stepper motors
- Brushless DC motors
- Permanent magnet motors
- Variable reluctance motors
- Stepper motors
- Brushless DC motors

Electronic Control of Motors

- DC Motors
- AC Motors.

Study Guide

Lesson Power Points

AC MACHINES

Elect Machine-G043+G044+G045.zip **http://www.filefactory.com/file/c0b6668/n/Elect_Machine-G043_G044_G045.zip**
G043_G045_7762AF_Notes **G043_G045_Part_1_7762AF_Notes**
Induction and synchronous machines & control G043+G045 Lesson 1 AC Machine Introduction.zip http://www.filefactory.com/file/c0bf660/n/G043_G045_Lesson_1_AC_Machine_Introduction.zip G043+G045 Lesson 2 Slip+Equivalent Ckt.zip http://www.filefactory.com/file/c0bf7b9/n/G043_G045_Lesson_2_Slip_Equivalent_Ckt.zip G043+G045 Lesson 3 Power Transfer.zip http://www.filefactory.com/file/c0bf773/n/G043_G045_Lesson_3_Power_Transfer.zip

G043+G045 Lesson 4 Test for equivalent ckt.zip

http://www.filefactory.com/file/c0b03f9/n/G043_G045_Lesson_4_Test_for_equivalent_ckt.zip

G043+G045 Lesson 5 Equivalent Ckt Problems.zip

http://www.filefactory.com/file/c0bf842/n/G043_G045_Lesson_5_Equivalent_Ckt_Problems.zip

G043+G045 Lesson 6 Motor starting and control.zip

http://www.filefactory.com/file/c0bf90e/n/G043_G045_Lesson_6_Motor_starting_and_control.zip

G043+G045 Lesson 7 Synchronous machine introduction.zip

http://www.filefactory.com/file/c0bf92d/n/G043_G045_Lesson_7_Synchronous_machine_introduction.zip

G043+G045 Lesson 8 Synchronous machine ckt problems.zip

http://www.filefactory.com/file/c0bf955/n/G043_G045_Lesson_8_Synchronous_machine_ckt_problems.zip
G043+G045 Lesson 9 Synchronous machine starting.zip

http://www.filefactory.com/file/c0b0342/n/G043_G045_Lesson_9_Synchronous_machine_starting.zip

G043+G045 Lesson 10 Single phase motor.zip

http://www.filefactory.com/file/c0b0362/n/G043_G045_Lesson_10_Single_phase_motor.zip

G043+G045 Lesson 11 Factors affecting motor operation.zip

http://www.filefactory.com/file/c0b037b/n/G043_G045_Lesson_11_Factors_affecting_motor_operation.zip

Induction and synchronous machines & control

DC MACHINES

1	Elect Fundamental E029+G012+G001+G002+G060.zip http://www.filefactory.com/file/c0b6601/n/Elect_Fundamental_E029_G012_G001_G002_G060.zip Elect Machine-G043+G044+G045.zip

	http://www.filefactory.com/file/c0b6668/n/Elect_Machine-G043_G044_G045.zip
2	E029_Motor_Control_1 E029_Motor_Control_2 E047Mech G044_7762AC1 G044_7762AC2

TRANSFORMERS

Power Transformer+Line-G040.zip **http://www.filefactory.com/file/c0b7bd2/n/Power_Transformer_Line-G040.zip**
G040_7762AD_Notes
As_1
As_2
G040 Lesson 1 Power transformer rating 1.zip **http://www.filefactory.com/file/c0bcff1/n/G040_Lesson_1_Power_transformer_rating_1.zip** **G040 Lesson 1 Power transformer rating 2.zip** **http://www.filefactory.com/file/c0bcf9b/n/G040_Lesson_1_Power_transformer_rating_2.zip** **G040 Lesson 2 Open circuit short circuit test.zip** **http://www.filefactory.com/file/c0bc0b9/n/G040_Lesson_2_Open_circuit_short_circuit_test.zip** **G040 Lesson 3 Transformer regulation.zip** **http://www.filefactory.com/file/c0bc0d1/n/G040_Lesson_3_Transformer_regulation.zip** **G040 Lesson 4 Power transformer connection.zip** **http://www.filefactory.com/file/c0bc09a/n/G040_Lesson_4_Power_transformer_connection.zip** **G040 Lesson 5 Maximum efficiency.zip** **http://www.filefactory.com/file/c0bc1db/n/G040_Lesson_5_Maximum_efficiency.zip** **G040 Lesson 6 Transformer parallel operation.zip** **http://www.filefactory.com/file/c0bc164/n/G040_Lesson_6_Transformer_parallel_operation.zip** **G040 Lesson 7 Harmonic in transformer.zip** **http://www.filefactory.com/file/c0bc2ab/n/G040_Lesson_7_Harmonic_in_transformer.zip** **G040 Lesson 8 Transformer problem + auto transformer.zip** **http://www.filefactory.com/file/c0bc2cb/n/G040_Lesson_8_Transformer_problem_auto_transformer.zip**

G040_Lesson_9_Transformer_rating_cooling_connection_tap_changing.zip **http://www.filefactory.com/file/c0bc294/n/G040_Lesson_9_Transformer_rating_cooling_connection_tap_changing.zip** **G040 Lesson 10 Phase shift transformer.zip** **http://www.filefactory.com/file/c0bc2f5/n/G040_Lesson_10_Phase_shift_transformer.zip**

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Textbook

Prescribed Texts:

Wildi, T 2006, *Electrical Machines, Drives and Power Systems* 6th or latest edition. Pearson Prentice Hall, Australia

http://www.filefactory.com/file/7hcvfk7cai6b/Electrical_Machines_drive_power_system_pdf

http://www.filefactory.com/file/2ua3qpynkv43/ENELE202A-Principle_of_Elect_Meachine_pdf

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Tutorial Exercises

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Further Readings

Subjects	Points	Competency Units
Advanced Electro-magnetics Field & Materials		Electromagnetism

Advanced Electro-magnetics

Field & Materials

Readings

Electro-magnetics Field

Electromagnetism

Electro-magetism

Examples

Electro-mechanics (2 pt)

Part (1) Overview Knowledge of the subject

Folder					Advanced Engineering Mathematics
					Instruction Study the notes, calculate the example problems then do the exercises numbers as indicated

File name	Chapter		Page		Topics
					Note- PDF File page number and the page number of the scanned document may be different. The student need to check both as necessary
Theory					
chap01_emd.pdf			All		Electro-mechanic -1.0.1 Scope of application • Electro-magnetic theory 1.1.1a Magnetic field system, Table 1.1 1.1.1.b Electric field system Table 1.2
chap02_emd.pdf			All		Lumped electro-mechanical elements
chap03_sec_emd.pdf			All		Lumped parameter-electro-mechanic
chap04_sec_emd.pdf			All		Rotating machines
chap05_sec_emd.pdf			All		Lumped parameter-electro mechanical dynamics
Problems					
chap02_prb_emd.pdf			All		Example problems
chap03_prb_emd.pdf			All		Example problems
chap04_prb_emd.pdf			All		Example problems
chap05_prb_emd.pdf			All		Example problems
emdsoln_01.pdf			All		Solutions for all example problems

Electrical Machines
Machine Principle

Folder				Electrical Machines
File				Electrical Machines
				Instruction

				Study the notes, calculate the example problems then do the exercises numbers as indicated
Chapter	Page			Topics
				Note- PDF File page number and the page number of the scanned document may be different. The student need to check both as necessary
	45			DC Generator, Example problems
	58			DC Motors, Example problems
	121			Efficiency & heating of electrical machines, Example problems
	131			Three phase transformer, Example problems
	142			Three phase induction motors, Example problems
	177			Synchronous generators, Example problems
	194			Synchronous motors, Example problems
	229			Basic of industrial motor control, Example problems

Machine Principle

Folder				Machine Principle
				Instruction Study the notes, calculate the example problems then do the exercises numbers as indicated
Chapter	Page			Topics
				Note- PDF File page number and the page number of the scanned document may be different. The student need to check both as necessary
2	114			Rotating machines
3	116			Machinery mounting
4	118			Balancing
6	124			Bearing
7	139			Power transmission

Advanced Electro-magnetics Field & Materials

Folder					Advanced Electro-magnetic Field & Materials
File					
					Instruction Study the notes, calculate the example problems then do the exercises numbers as indicated

File name	Chapter		Page		Topics
					Note- PDF File page

					number and the page number of the scanned document may be different. The student need to check both as necessary
Pre-readings					
em01.pdf	1		All		Electric field
em02.pdf	2		All		Electrostatic potential
em03.pdf	3		All		Dipole and quadrature pole movements
em04.pdf	4		All		Batteries, resistors, ohm laws
em05.pdf	5		All		Capacitors
em06.pdf	6		All		Magnetic effect of an electric current
em07.pdf	7		All		Force on current in a magnetic field
em08.pdf	8		All		Electro-dynamics of moving bodies
em09.pdf	9		All		Magnetic potential
em10.pdf	10		All		Electro-magnetic Induction
em11.pdf	11		All		Dimensions
em12.pdf	12		All		Properties of magnetic materials
em13.pdf	13		All		Alternating current
em14.pdf	14		All		Laplace transform
em15.pdf	15		All		Maxwell Equation
em16.pdf	16		All		CGS Electricity & Magnetism
em17.pdf	17		All		Magnetic dipole movement
Highlight Points					
Lecture1.pdf			All		Outlines
Lecture 2.pdf			All		Electric field
Lecture 3.pdf			All		Electrostatic Energy
Lecture 4.pdf			All		Laplace’s equation (1)
Lecture 5.pdf			All		Laplace’s equation (2)
Lecture 6.pdf			All		Remarks on units
Lecture 7.pdf			All		Green’s functions
Lecture 8.pdf			All		Multipole expansion
Lecture 9.pdf			All		Electro-static in matter
Lecture 10.pdf			All		Boundary condition
Lecture 11.pdf			All		Magneto statics (1)
Lecture 12.pdf			All		Magneto statics (2)
Lecture 13.pdf			All		Macroscopic magneto statics
Lecture 14.pdf			All		Maxwell’s equation

Lecture 15.pdf			All		DISC movement
Lecture 16.pdf			All		Electro-magnetic plane waves
Lecture 17.pdf			All		Reflection & refraction
Lecture 18.pdf			All		Casual relation between D & E
Lecture 19.pdf			All		Wave guides and load cavities
Lecture 20.pdf			All		Electromagnetic radiation and scattering (1)
Lecture 21.pdf			All		Electromagnetic radiation and scattering (2)
Lecture 22.pdf			All		Scattering by small di-electric sphere
Lecture 27.pdf			All		Electro-magnetism
Lecture 28.pdf			All		Electro magnetic fields and moving charges
Formulas					
CW950212_1.pdf			All		Multipole expansion
CW950320_1.pdf			All		Magnetic constants and materials
CW950329_1.pdf			All		Ampere law
CW950128_3.pdf			All		Brief history of electro magnetism
CW950219_2.pdf			All		Gauss's law
CW950313_2.pdf			All		Numerical solutions to Laplace's equation
CW960430_2.pdf			All		Small current loop
CW970129_3.pdf			All		Curvilinear co-ordinate system
CW970210_1.pdf			All		Problems
CW970303_1.pdf			All		Dielectric tensors and constants
CW970317_2.pdf			All		Analytic solution to Laplace equation
CW970606_1.pdf			All		Magnetostatic boundary condition
CW970606_1.pdf			All		Electrostatic boundary condition
Symbols					
CW970606_3.pdf			All		Electromagnetic field
CW980205_2.pdf			All		The gradient vector
Di-electric.pdf			All		Maxwell's equation
Propagation.pdf			All		Electro-magnetic wave propagation

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Online Practicals

Practicals Work performance and practical instruction

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ENELE 203A Electronics and Power Control

Course Outline

In this subject you will learn about electronics and power control. You will develop specialised knowledge and skills relating to:

Semiconductors, diodes, transistors and integrated circuits:

- Semiconductor materials and junctions
- Diode construction, operation, ratings and applications
- Transistor construction, operation, ratings and applications
- Integrated circuit construction, operation, ratings and applications especially as related to operational amplifiers

Linear regulated dc power supplies:

- Basic power supplies (ac to dc and dc to dc), circuits and applications
- Regulation requirements and applications

Switching power control circuits:

- Basic types, operation
- Critical issues, solutions and applications

Digital electronics

- Digital logic, circuits and power control applications

Power Inverters (DC to AC):

- Basic types, operation
- Critical issues, solutions and applications.

Study Guide

Lesson Power Points

POWER ELECTRONICS

Power Electronics -H025+H026.zip **http://www.filefactory.com/file/c0b6857/n/Power_Electronics_-H025_H026.zip**
H025_Operational_Amplifier H026_3_Ph_Power_Control_Electronics_1 H026_3_Ph_Power_Control_Electronics_2 H026_3_Ph_Power_Control_Electronics_3 H026_3_Ph_Power_Control_Electronics_4 In **Stage 3 Part 6.zip** **http://www.filefactory.com/file/c0cce63/n/Stage_3_Part_6.zip**
Operational_amplifier+ single phase power control equipments H025_Lesson_1-Differential_Amplifier.zip

http://www.filefactory.com/file/c20fef9/n/H025_Lesson_1-Differential_Amplifier.zip

H025_Lesson_2-Comparator.zip

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

H025 Lesson 3-Timer IC.zip

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

H025 Lesson 4-Op Amp Circuit 1 & 2.zip

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

H025 Lesson 7-Sine & square wave oscillators.zip

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

H025 Lesson 9-Active filter.zip

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

H025 Lesson 10-Multistage Op amp ckt.zip

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

H025 Lesson 11-Transducers.zip

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

H025 Lesson 12-Introduction to control.zip

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

Operational amplifier+ single phase power control equipments

Power Electronics -H025+H026.zip

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

Three phase power control equipments

H026 Lesson 1-Single &Three phase power control.zip

http://www.filefactory.com/file/c0b1ac9/n/H026_Lesson_1-Single_Three_phase_power_control.zip

H026 Lesson 2-Solid state switching devices.zip

http://www.filefactory.com/file/c0b1af2/n/H026_Lesson_2-Solid_state_switching_devices.zip

H026 Lesson 3-Inverter Converter.zip

http://www.filefactory.com/file/c0b1a59/n/H026_Lesson_3-Inverter_Converter.zip

H026 Lesson 4-Power Diodes.zip

http://www.filefactory.com/file/c0b1a8f/n/H026_Lesson_4-Power_Diodes.zip

H026 Lesson 5-AC Motor speed control.zip

http://www.filefactory.com/file/c0b1ba7/n/H026_Lesson_5-AC_Motor_speed_control.zip

H026 Lesson 6-Current fed inverter.zip

http://www.filefactory.com/file/c0b1b0d/n/H026_Lesson_6-Current_fed_inverter.zip

Three phase power control equipments

ANALOG ELECTRONICS

H045 Lesson 1 Op-amp.zip
http://www.filefactory.com/file/c0b1b3a/n/H045_Lesson_1_Op-amp.zip
H045 Lesson 1 Op-amp

H045 Lesson 2 DC Non idealities.zip
http://www.filefactory.com/file/c0b1b5b/n/H045_Lesson_2_DC_Non_idealities.zip

H045 Lesson 3 Bias compensation.zip
http://www.filefactory.com/file/c0b1b86/n/H045_Lesson_3_Bias_compensation.zip

H045 Lesson 4 Slew rate.zip
http://www.filefactory.com/file/c0b1ca0/n/H045_Lesson_4_Slew_rate.zip

H045 Lesson 5 AC Noise.zip
http://www.filefactory.com/file/c0b1cb2/n/H045_Lesson_5_AC_Noise.zip

H045 Lesson 5 AC Noise
http://uploading.com/files/6dmm1ccf/H045%2BLesson%2B5%2BAC%2BNoise.zip/

H045 Lesson 6 Source noise resistance.zip
http://www.filefactory.com/file/c268af2/n/H045_Lesson_6_Source_noise_resistance.zip

H045 Lesson 7 Signal to noise ratio.zip
http://www.filefactory.com/file/c0b1cff/n/H045_Lesson_7_Signal_to_noise_ratio.zip

H045 Lesson 8 Frequency compensation.zip
http://www.filefactory.com/file/c0b1c0e/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

H045 Lesson 10 Feedforward compensation.zip
http://www.filefactory.com/file/c0b1c56/n/H045_Lesson_10_Feedforward_compen

sation.zip

Analogue Electronics

H045 Lesson 1 Op-amp.zip

http://www.filefactory.com/file/c0b1b3a/n/H045_Lesson_1_Op-amp.zip

H045 Lesson 2 DC Non idealities.zip

http://www.filefactory.com/file/c0b1b5b/n/H045_Lesson_2_DC_Non_idealities.zip

H045 Lesson 3 Bias compensation.zip

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

H045 Lesson 4 Slew rate.zip

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

H045 Lesson 5 AC Noise.zip

http://www.filefactory.com/file/c0b1cb2/n/H045_Lesson_5_AC_Noise.zip

H045 Lesson 6 Source noise resistance.zip

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

H045 Lesson 7 Signal to noise ratio.zip

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

H045 Lesson 8 Frequency compensation.zip

http://www.filefactory.com/file/c0b1c0e/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

H045 Lesson 10 Feedforward compensation.zip

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

AMPLIFIER

http://www.filefactory.com/file/c0cb6a8/n/Additional_3.zip

DC Power Supply

http://www.filefactory.com/file/4f92zgjjzg7j/DC%20Power%20Supply.pdf

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Textbook

Prescribed Texts:

Meade, R, Diffenderfer, R 2006, *Foundations of Electronics: Circuits and Devices* (Conventional Flow), 5th or latest edition, Delmar Cengage Learning, USA

http://www.filefactory.com/file/2yu0qvkoqppn/Electronic%20Devices.pdf

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Tutorial Exercises

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Further Readings

Analog & Digital Electronics 1

http://www.filefactory.com/file/27alnx6skg2x/BAE408Wk1.zip

Analog & Digital Electronics 2

http://www.filefactory.com/file/3vpyub43h53p/n/BAE408Wk2_zip

Analog & Digital Electronics 3

http://www.filefactory.com/file/4c6snjh05cel/n/BAE408Wk3_zip

Control 1

http://www.filefactory.com/file/4lahmzh0qf3b/n/BAE502_Wk_1_zip

Control 2

http://www.filefactory.com/file/46t9zbh859rl/BAE502_Wk_2.zip

Control 3

http://www.filefactory.com/file/15qea45hhvxx/n/BAE502_Wk_3_zip

Control 4

http://www.filefactory.com/file/22cy88iyi78f/n/BAE503Wk1PPT_zip

Control 5

http://www.filefactory.com/file/2d82bvgvzgx3/n/BAE503Wk2PPT_zip

Control 6

http://www.filefactory.com/file/3v7x6hmksvnf/n/BAE503Wk3PPT_zip

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ENPRA101A Engineering Practice

Course Outline

In this subject you will learn about the practices of an engineering professional within a multidisciplinary framework. You will develop basic knowledge and skills relating to electrical and other engineering specialisations, including:

Introduction to the Regulatory System:

- Electricity Act
- Electricity Regulation Australian
- Standards State Regulators
- Workplace Health and Safety
- Engineers Code of Ethics

Drawings And Specifications:

- Drawing Interpretation
- Overview of Computer Aided Design (CAD)
- Writing a Specification

Generation and Distribution:

- Generating Plant
- Transmission Grid
- Substations

Fasteners and Fastening Methods:

- Methods of securing electrical equipment to various surfaces

Wiring Systems:

- Load Calculations
- Max. Demand
- Cables and Systems
- AS3008

Control and Protection:

- Earthing
- Protection for safety
- Faults and overloads
- Protective devices and methods

Illumination:

Study Guide

Lesson Power Points
AUSTRALIAN ELECTRICIAN TRAINING

G033+G063+G107 (Week 1 to 6 Lessons)(G033)

G106 Cable Termination

G106+G033 Practical

G063 Wk 7+8

http://www.filefactory.com/file/423vowj4o34b/G063_Wk_7_8_zip

G033+G063+G107 Week 10 to 15

Study Guide EE07 & EE011

What to	study		Which	exercises to do		What practical to do	Resources
Main	study	Additional study	Main exercise		Additional exercises		
EE07 Unit	EE011 Unit	For EE07+ EE011 +Video	Study Option (1) EE-07	Study Option (2) EE-07	for EE011		
UEENEEE005B Fix and secure equipment	**UEENEEE105A Fix and secure electrotechnology equipment**	See 5 below	See 6 below	See 7 below	See 8 below	See 9 below	See 10 below
Study Option 1	**Study Option 1**						
See 1 below	See 3 below		EE011	=	EE07 +	Additional	
Study Option 2	**Study Option 2**						
See 2 below	See 4 below						

1	http://www.filefactory.com/file/c0b67b7/n/Electrical_Workshop_Wiring_E001_2_3_4_5_7_8_33_G003_4_7.zip
2	
3	http://www.filefactory.com/file/c0b67b7/n/Electrical_Workshop_Wiring_E001_2_3_4_5_7_8_33_G003_4_7.zip
4	
5	Video-- Electrical workshop Lesson 1 OHS.zip http://www.filefactory.com/file/c0adbfa/n/Electrical_workshop_Lesson_1_OHS.zipElectrical workshop Lesson 2 Workplace hazard+Fix & secure equipment.zip http://www.filefactory.com/file/c0adca2/n/Electrical_workshop_Lesson_2_Workplace_hazard_Fix_secure_equipment.zip Electrical workshop Lesson 3 Mechanical fixing.zip http://www.filefactory.com/file/c0adc1d/n/Electrical_workshop_Lesson_3_Mechanical_fixing.zip Electrical workshop Lesson 4 Basic electrical wiring.zip http://www.filefactory.com/file/c0add65/n/Electrical_workshop_Lesson_4_Basic_electrical_wiring.zip Electrical workshop Lesson 5 Wiring circuits.zip http://www.filefactory.com/file/c0ade9b/n/Electrical_workshop_Lesson_5_Wiring_circuits.zip Electrical workshop Lesson 6 Electrical safety testing.zip http://www.filefactory.com/file/c0adf90/n/Electrical_workshop_Lesson_6_Electrical_safety_testing.zip Electrical workshop Lesson 7 Testing insulation and polarity.zip http://www.filefactory.com/file/c0ad031/n/Electrical_workshop_Lesson_7_Testing_insulation_and_polarity.zip Electrical workshop Lesson 8 Testing lighting polarity.zip http://www.filefactory.com/file/c0ad1d8/n/Electrical_workshop_Lesson_8_Testing_lighting_polarity.zip
6	(2) Click HERE to download other Exercises
7	**EE07 & EE011 units mapping for Theory study & Exercises**
8	http://www.filefactory.com/file/3qun68epu0lp/n/Advanced_Diploma_in_Electrical_Engineering_Exercises_EE011_pdf
9	Stage_1_Electrical_workshop_practicals.pdf Wiring_Equipments_to_purchase **IN THE LINK INDICATED IN ROLL 11**
10	Fixing Equipments E002_E005.zip **IN THE LINK INDICATED IN ROLL 11**
11	**BACK UP FOR 9 & 10** Stage 1 Part 1.zip

1	http://www.filefactory.com/file/c0cb8ab/n/Stage_1_Part_1.zip Stage 1 Part 5.zip http://www.filefactory.com/file/c0cb9b3/n/Stage_1_Part_5.zip

Study Guide EE07 & EE011

What to study			Which exercises to do		What practical to do	Resources
Main study		Additional study	Main exercise		Additional exercises	
EE07 Unit	EE011 Unit	For EE07+ EE011 +Video	Study Option (1) EE-07	Study Option (2) EE-07	for EE011	
UEENEEE007B **Use drawings, diagrams, schedules and manuals**	**UEENEEE107A** **Use drawings, diagrams, schedules, standards, codes and specifications**	See 5 below	See 6 below	See 7 below	See 8 below	See 9 below	See 10 below
Study Option 1	**Study Option 1**						
See 1 below	See 3 below		EE011	=	EE07 +	Additional	
Study Option 2	**Study Option 2**						
See 2 below	See 4 below						

1	http://www.filefactory.com/file/c0b67b7/n/Electrical_Workshop_Wiring_E001_2_3_4_5_7_8_33_G003_4_7.zip
2	ElectricalDrawing1 ElectricalDrawing2 ElectricalDrawing3 Stage 1 Part 3.zip http://www.filefactory.com/file/c0cb8f5/n/Stage_1_Part_3.zip GeneralDrawing1 GeneralDrawing2 Stage 1 Part 4.zip http://www.filefactory.com/file/c0cc1cd/n/Stage_1_Part_4.zip
3	http://www.filefactory.com/file/c0b67b7/n/Electrical_Workshop_Wiring_E001_2_3_4_5_7_8_33_G003_4_7.zip
4	ElectricalDrawing1 ElectricalDrawing2 ElectricalDrawing3 Stage 1 Part 3.zip http://www.filefactory.com/file/c0cb8f5/n/Stage_1_Part_3.zip GeneralDrawing1 GeneralDrawing2 Stage 1 Part 4.zip http://www.filefactory.com/file/c0cc1cd/n/Stage_1_Part_4.zip
5	Video-- Electrical workshop Lesson 1 OHS.zip http://www.filefactory.com/file/c0adbfa/n/Electrical_workshop_Lesson_1_OHS.zipElectrical workshop Lesson 2 Workplace hazard+Fix & secure equipment.zip http://www.filefactory.com/file/c0adca2/n/Electrical_workshop_Lesson_2_Workplace_hazard_Fix_secure_equipment.zip Electrical workshop Lesson 3 Mechanical fixing.zip http://www.filefactory.com/file/c0adc1d/n/Electrical_workshop_Lesson_3_Mechanical_fixing.zip Electrical workshop Lesson 4 Basic electrical wiring.zip http://www.filefactory.com/file/c0add65/n/Electrical_workshop_Lesson_4_Basic_electrical_wiring.zip Electrical workshop Lesson 5 Wiring circuits.zip http://www.filefactory.com/file/c0ade9b/n/Electrical_workshop_Lesson

	_5_Wiring_circuits.zip Electrical workshop Lesson 6 Electrical safety testing.zip http://www.filefactory.com/file/c0adf90/n/Electrical_workshop_Lesson_6_Electrical_safety_testing.zip Electrical workshop Lesson 7 Testing insulation and polarity.zip http://www.filefactory.com/file/c0ad031/n/Electrical_workshop_Lesson_7_Testing_insulation_and_polarity.zip Electrical workshop Lesson 8 Testing lighting polarity.zip http://www.filefactory.com/file/c0ad1d8/n/Electrical_workshop_Lesson_8_Testing_lighting_polarity.zip
6	(2) Click HERE to download other Exercises
7	Stage_1_Electrical_workshop_practicals.pdf
8	http://www.filefactory.com/file/3qun68epu0lp/n/Advanced_Diploma_in_Electrical_Engineering_Exercises_EE011_pdf
9	**EE07 & EE011 units mapping for Theory study & Exercises** Attend the face to face session Stage_1_Electrical_workshop_practicals.pdf Wiring_Equipments_to_purchase in Stage 1 Part 3.zip http://www.filefactory.com/file/c0cb8f5/n/Stage_1_Part_3.zip
10	ElectricalDrawing1 ElectricalDrawing2 ElectricalDrawing3 Stage 1 Part 3.zip http://www.filefactory.com/file/c0cb8f5/n/Stage_1_Part_3.zip GeneralDrawing1 GeneralDrawing2 Stage 1 Part 4.zip http://www.filefactory.com/file/c0cc1cd/n/Stage_1_Part_4.zip
11	**BACK UP FOR 9 & 10** Stage 1 Part 3.zip http://www.filefactory.com/file/c0cb8f5/n/Stage_1_Part_3.zip

Study Guide EE07 & EE011

What to	study		Whic	exerci		What	Resour

			h	ses to do		practical to do	ces
Main	study	Additional study	Main exercise		Additional exercises	do	
EE07 Unit	EE011 Unit	For EE07+EE011 +Video	Study Option (1) EE-07	Study Option (2) EE-07	for EE011		
UEENEEE 008B Lay wiring/cabling and terminate accessories for extra-low voltage circuits	**UEENEEE 108A Lay wiring/cabling and terminate accessories for extra-low voltage (ELV) circuits**	See 5 below	See 6 below	See 7 below	See 8 below	See 9 below	See 10 below
Study Option 1	Study Option 1						
See 1 below	See 3 below		EE011	=	EE07 +	Additional	
Study Option 2	Study Option 2						
See 2 below	See 4 below						

1	http://www.filefactory.com/file/c0b67b7/n/Electrical_Workshop_Wiring_E001_2_3_4_5_7_8_33_G003_4_7.zip
2	
3	http://www.filefactory.com/file/c0b67b7/n/Electrical_Workshop_Wiring_E001_2_3_4_5_7_8_33_G003_4_7.zip
4	
5	Video-- Electrical workshop Lesson 1 OHS.zip http://www.filefactory.com/file/c0adbfa/n/Electrical_workshop_Lesson_1_OHS.zipElectrical workshop Lesson 2 Workplace hazard+Fix & secure equipment.zip http://www.filefactory.com/file/c0adca2/n/Electrical_workshop_Lesson_2_Workplace_hazard_Fix_secure_equipment.zip Electrical workshop Lesson 3 Mechanical fixing.zip http://www.filefactory.com/file/c0adc1d/n/Electrical_workshop_Lesson_3_Mechanical_fixing.zip Electrical workshop Lesson 4 Basic electrical wiring.zip

	http://www.filefactory.com/file/c0add65/n/Electrical_workshop_Lesson_4_Basic_electrical_wiring.zip Electrical workshop Lesson 5 Wiring circuits.zip http://www.filefactory.com/file/c0ade9b/n/Electrical_workshop_Lesson_5_Wiring_circuits.zip Electrical workshop Lesson 6 Electrical safety testing.zip http://www.filefactory.com/file/c0adf90/n/Electrical_workshop_Lesson_6_Electrical_safety_testing.zip Electrical workshop Lesson 7 Testing insulation and polarity.zip http://www.filefactory.com/file/c0ad031/n/Electrical_workshop_Lesson_7_Testing_insulation_and_polarity.zip Electrical workshop Lesson 8 Testing lighting polarity.zip http://www.filefactory.com/file/c0ad1d8/n/Electrical_workshop_Lesson_8_Testing_lighting_polarity.zip
6	2) Click HERE to download other Exercises
7	**EE07 & EE011 units mapping for Theory study & Exercises**
8	http://www.filefactory.com/file/3qun68epu0lp/n/Advanced_Diploma_in_Electrical_Engineering_Exercises_EE011_pdf
9	**EE07 & EE011 units mapping for Theory study & Exercises** Attend the face to face session Stage_1_Electrical_workshop_practicals.pdf Wiring_Equipments_to_purchase **IN THE LINK INDICATED IN ROLL 11**
10	Wiring_Notes_1. Wiring_Notes_2 Switchboard_Wiring 1Wiring_E033_E008 2Wiring_E033_E008 **IN THE LINK INDICATED IN ROLL 11**
11	**BACK UP for 9 & 10** Stage 1 Part 5.zip http://www.filefactory.com/file/c0cb9b3/n/Stage_1_Part_5.zip Stage 1 Part 1.zip http://www.filefactory.com/file/c0cb8ab/n/Stage_1_Part_1.zip

Study Guide EE07 & EE011

What to study			Which exercises to do		What practical to do	Resources
Main study		Additional study	Main exercise		Additional exercises	
EE07 Unit	EE011 Unit	For EE07+EE011 +Video	Study Option (1) EE-07	Study Option (2) EE-07	for EE011	

			07				
UEENEEE033B Document occupational hazards and risks in electrical work	**UEENEEE137A Document and apply measures to control OHS risks associated with electrotechnology work**	See 5 below	See 6 below	See 7 below	See 8 below	See 9 below	See 10 below
Study Option 1	**Study Option 1**						
See 1 below	See 3 below		EE011	=	EE07 +	Additional	
Study Option 2	**Study Option 2**						
See 2 below	See 4 below						

1	http://www.filefactory.com/file/c0b67b7/n/Electrical_Workshop_Wiring_E001_2_3_4_5_7_8_33_G003_4_7.zip
2	
3	http://www.filefactory.com/file/c0b67b7/n/Electrical_Workshop_Wiring_E001_2_3_4_5_7_8_33_G003_4_7.zip
4	
5	Video-- Electrical workshop Lesson 1 OHS.zip http://www.filefactory.com/file/c0adbfa/n/Electrical_workshop_Lesson_1_OHS.zipElectrical workshop Lesson 2 Workplace hazard+Fix & secure equipment.zip http://www.filefactory.com/file/c0adca2/n/Electrical_workshop_Lesson_2_Workplace_hazard_Fix_secure_equipment.zip Electrical workshop Lesson 3 Mechanical fixing.zip http://www.filefactory.com/file/c0adc1d/n/Electrical_workshop_Lesson_3_Mechanical_fixing.zip Electrical workshop Lesson 4 Basic electrical wiring.zip http://www.filefactory.com/file/c0add65/n/Electrical_workshop_Lesson_4_Basic_electrical_wiring.zip Electrical workshop Lesson 5 Wiring circuits.zip http://www.filefactory.com/file/c0ade9b/n/Electrical_workshop_Lesson_5_Wiring_circuits.zip Electrical workshop Lesson 6 Electrical safety testing.zip http://www.filefactory.com/file/c0adf90/n/Electrical_workshop_Les

	son_6_Electrical_safety_testing.zip Electrical workshop Lesson 7 Testing insulation and polarity.zip http://www.filefactory.com/file/c0ad031/n/Electrical_workshop_Lesson_7_Testing_insulation_and_polarity.zip Electrical workshop Lesson 8 Testing lighting polarity.zip http://www.filefactory.com/file/c0ad1d8/n/Electrical_workshop_Lesson_8_Testing_lighting_polarity.zip
6	2) Click HERE to download other Exercises
7	**EE07 & EE011 units mapping for Theory study & Exercises**
8	http://www.filefactory.com/file/3qun68epu0lp/n/Advanced_Diploma_in_Electrical_Engineering_Exercises_EE011_pdf
9	**EE07 & EE011 units mapping for Theory study & Exercises** Attend the face to face session Stage_1_Electrical_workshop_practicals.pdf Wiring_Equipments_to_purchase **IN THE LINK INDICATED IN ROLL 11**
10	Electrical_safe_working.zip NREL_Disconnect_Reconnect.zip **IN THE LINK INDICATED IN ROLL 11**
11	**BACK UP for 9 & 10** Stage 1 Part 5.zip http://www.filefactory.com/file/c0cb9b3/n/Stage_1_Part_5.zip Stage 1 Part 1.zip http://www.filefactory.com/file/c0cb8ab/n/Stage_1_Part_1.zip

Study Guide EE07 & EE011

What to	study		Which	exercises to do		What practical to do	Resources
Main	study	Additional study	Main exercise		Additional exercises		
EE07 Unit	EE011 Unit	For EE07+EE011 +Video	Study Option (1) EE-07	Study Option (2) EE-07	for EE011		
	UEENEEG106A Terminate cables, cords and accessories for low voltage circuits	See 5 below	See 6 below	See 7 below	See 8 below	See 9 below	See 10 below

Study Option 1	**Study Option 1**						
See 1 below	See 3 below		EE011	=	EE07 +	Additional	
Study Option 2	**Study Option 2**						
See 2 below	See 4 below						

4	ELV_Cable_termination in Stage 2 Part 2A.zip http://www.filefactory.com/file/c0cca4a/n/Stage_2_Part_2A.zip
5	Video-- Electrical workshop Lesson 1 OHS.zip http://www.filefactory.com/file/c0adbfa/n/Electrical_workshop_Lesson_1_OHS.zipElectrical workshop Lesson 2 Workplace hazard+Fix & secure equipment.zip http://www.filefactory.com/file/c0adca2/n/Electrical_workshop_Lesson_2_Workplace_hazard_Fix_secure_equipment.zip Electrical workshop Lesson 3 Mechanical fixing.zip http://www.filefactory.com/file/c0adc1d/n/Electrical_workshop_Lesson_3_Mechanical_fixing.zip Electrical workshop Lesson 4 Basic electrical wiring.zip http://www.filefactory.com/file/c0add65/n/Electrical_workshop_Lesson_4_Basic_electrical_wiring.zip Electrical workshop Lesson 5 Wiring circuits.zip http://www.filefactory.com/file/c0ade9b/n/Electrical_workshop_Lesson_5_Wiring_circuits.zip Electrical workshop Lesson 6 Electrical safety testing.zip http://www.filefactory.com/file/c0adf90/n/Electrical_workshop_Lesson_6_Electrical_safety_testing.zip Electrical workshop Lesson 7 Testing insulation and polarity.zip

	http://www.filefactory.com/file/c0ad031/n/Electrical_workshop_Lesson_7_Testing_insulation_and_polarity.zip Electrical workshop Lesson 8 Testing lighting polarity.zip http://www.filefactory.com/file/c0ad1d8/n/Electrical_workshop_Lesson_8_Testing_lighting_polarity.zip
6	
7	Only practical assessment in class
8	http://www.filefactory.com/file/3qun68epu0lp/n/Advanced_Diploma_in_Electrical_Engineering_Exercises_EE011_pdf
9	Attend face to face class http://www.filefactory.com/file/2f8e3fph9trr/n/G106_G033_Practical_zip
10	ELV_Cable_termination Wiring_Notes_1. Wiring_Notes_2 Switchboard_Wiring 1Wiring_E033_E008 2Wiring_E033_E008 ElectricalDrawing1.zip ElectricalDrawing2.zip ElectricalDrawing3.pdf **IN THE LINK INDICATED IN ROLL 11**
11	**BACK UP** Stage 2 Part 2A.zip http://www.filefactory.com/file/c0cca4a/n/Stage_2_Part_2A.zip

Study Guide EE07 & EE011

What to	study		Which	exercises to do		What practical to do	Resources
Main	study	Additional study	Main exercise		Additional exercises		
EE07 Unit	EE011 Unit	For EE07+EE011 +Video	Study Option (1) EE-07	Study Option (2) EE-07	for EE011		
	UEENEEG063A Arrange circuits, control and protection for general electrical installations	See 5 below	See 6 below	See 7 below	See 8 below	See 9 below	See 10 below
Study Option 1	Study Option 1						

See 1 below	See 3 below		EE011	=	EE07 +	Additional	
Study Option 2	**Study Option 2**						
See 2 below	See 4 below						

1	
2	
3	
4	
5	**Electrical wiring + Electrical Installation requirement** G003+G004+G007 Lesson 1 Electrical installation protection.zip http://www.filefactory.com/file/c35d2f2/n/G003_G004_G007_Lesson_1_Electrical_installation_protection.zip G003+G004+G007 Lesson 2 Electrical system safety.zip http://www.filefactory.com/file/cf937ac/n/G003_G004_G007_Lesson_2_Electrical_system_safety.zip G003+G004+G007 Lesson 3 Heating+Cable ckt protection exercise.zip http://www.filefactory.com/file/c0abfe8/n/G003_G004_G007_Lesson_3_Heating_Cable_ckt_protection_exercise.zip G003+G004+G007 Lesson 4 Wiring system.zip http://www.filefactory.com/file/cf939f0/n/G003_G004_G007_Lesson_4_Wiring_system.zip

	G003+G004+G007 Lesson 5 Hazardous area electrical system.zip http://www.filefactory.com/file/cf94af8/n/G003_G004_G007_Lesson_5_Hazardous_area_electrical_system.zip G003+G004+G007 Lesson 6 Overload protection RCD.zip http://www.filefactory.com/file/cf94bcf/n/G003_G004_G007_Lesson_6_Overload_protection_RCD.zip G003+G004+G007 Lesson 7 RCD + Metering.zip http://www.filefactory.com/file/cf94cae/n/G003_G004_G007_Lesson_7_RCD_Metering.zip G003+G004+G007 Lesson 8 Switch board installation.zip http://www.filefactory.com/file/cf94c40/n/G003_G004_G007_Lesson_8_Switch_board_installation.zip G003+G004+G007 Lesson 9 Cable selection+Maximum demand.zip http://www.filefactory.com/file/cf94dbb/n/G003_G004_G007_Lesson_9_Cable_selection_Maximum_demand.zip G003+G004+G007 Lesson 10 Electrical installation safety testing.zip http://www.filefactory.com/file/cf94123/n/G003_G004_G007_Lesson_10_Electrical_installation_safety_testing.zip
6	
7	**EE07 & EE011 units mapping for Theory study & Exercises** Only face to face class assessment
8	Only face to face class assessment
9	EE07 & EE011 units mapping for Theory study & Exercises Attend face to face class PRACTICAL

	Workshop 2+3 WorkShop_Part_2_Practical_1_to_6_.zip WorkShop_Part_2_Practical_7_to_12_.zip WorkShop_Part_2_Practical_13_to_17_.zip WorkShop_Part_2_Practical_18_to_21_.zip ElectricalWorkshopPart3_G008_Group1Machine_.zip ElectricalWorkshopPart3_G008_Group2LineProtection_.zip ElectricalWorkshopPart3_G008_Group3InstrumentsDevices_.zip OTHER PRACTICALS ELECTRICAL_WORKSHOP_PART_2_G003_G004_G009_.zip Electrical_Workshop_Part_2_Practical_1_to_18.zip Electrical_Workshop_Part_2_Practical_19_to_21.zip G003_G004_G009Practicals.pdf **IN THE LINK INDICATED IN ROLL 11**
10	Construction ElectricalSafety.zip InserviceTesting.zip Wiring_Notes_1. Wiring_Notes_2 Switchboard_Wiring 1Wiring_E033_E008 2Wiring_E033_E008 IN THE LINK INDICATED IN ROLL 11
11	**BACK UP FOR 9 & 10** Stage 2 Part 1B.zip http://www.filefactory.com/file/c0ccac0/n/Stage_2_Part_1B.zip Stage 2 Part 3.zip http://www.filefactory.com/file/c0ccb1f/n/Stage_2_Part_3.zip Stage 2 Part 6.zip http://www.filefactory.com/file/c0cccc0/n/Stage_2_Part_6.zip Stage 3 Part 3.zip http://www.filefactory.com/file/c0ccd44/n/Stage_3_Part_3.zip Stage 3 Part 4.zip http://www.filefactory.com/file/c0ccd9a/n/Stage_3_Part_4.zip Stage 4 Part 8.zip http://www.filefactory.com/file/c0cc5a1/n/Stage_4_Part_8.zip Stage 4 Part 9.zip http://www.filefactory.com/file/c0cc5db/n/Stage_4_Part_9.zip Stage 4 Part 10.zip http://www.filefactory.com/file/c0cc5f8/n/Stage_4_Part_10.zip Stage 3 Part 5.zip http://www.filefactory.com/file/c0ccefd/n/Stage_3_Part_5.zip Stage 3 Part 8.zip http://www.filefactory.com/file/c0ccf09/n/Stage_3_Part_8.zip Stage 3 Part 9.zip http://www.filefactory.com/file/c0ccf48/n/Stage_3_Part_9.zip

Study Guide EE07 & EE011

What to	study		Which	exercises to do		What practical to do	Resources
Main	study	Additional study	Main exercise		Additional exercises		
EE07 Unit	EE011 Unit	For EE07+EE011 +Video	Study Option (1) EE-07	Study Option (2) EE-07	for EE011		
UEENEEG 007A Select wiring systems and cables for low voltage general electrical installations	**UEENEEG 107A Select wiring systems and cables for low voltage general electrical installations**	See 5 below	See 6 below	See 7 below	See 8 below	See 9 below	See 10 below
Study Option 1	Study Option 1						
See 1 below	See 3 below		EE011	=	EE07 +	Additional	
Study Option 2	Study Option 2						
See 2 below	See 4 below						

1	http://www.filefactory.com/file/c0b67b7/n/Electrical_Workshop_Wiring_E001_2_3_4_5_7_8_33_G003_4_7.zip
2	AS3000-2007Overview.zip AS3000_AS3008TablesExtract.zip WiringRules.zip Part (1) Study the following notes Installation_Requirement_1-A.zip

	Installation_Requirement_1-B.zip Installation_Requirement_2-A.zip Installation_Requirement_2-B.zip Stage_2_Wiring.zip In Stage 2 Part 3.zip http://www.filefactory.com/file/c0ccb1f/n/Stage_2_Part_3.zip Stage 2 Part 6.zip http://www.filefactory.com/file/c0cccc0/n/Stage_2_Part_6.zip Stage 3 Part 1B.zip http://www.filefactory.com/file/c0ccc42/n/Stage_3_Part_1B.zip Stage 3 Part 3.zip http://www.filefactory.com/file/c0ccd44/n/Stage_3_Part_3.zip Stage 3 Part 4.zip http://www.filefactory.com/file/c0ccd9a/n/Stage_3_Part_4.zip Stage 3 Part 5.zip http://www.filefactory.com/file/c0ccefd/n/Stage_3_Part_5.zip Stage 3 Part 6.zip http://www.filefactory.com/file/c0cce63/n/Stage_3_Part_6.zip Stage 3 Part 9.zip http://www.filefactory.com/file/c0ccf48/n/Stage_3_Part_9.zip Stage 4 Part 7.zip http://www.filefactory.com/file/c0cc479/n/Stage_4_Part_7.zip Stage 4 Part 8.zip http://www.filefactory.com/file/c0cc5a1/n/Stage_4_Part_8.zip Stage 4 Part 9.zip http://www.filefactory.com/file/c0cc5db/n/Stage_4_Part_9.zip Stage 4 Part 14.zip http://www.filefactory.com/file/c0cc684/n/Stage_4_Part_14.zip
3	http://www.filefactory.com/file/c0b67b7/n/Electrical_Workshop_Wiring_E001_2_3_4_5_7_8_33_G003_4_7.zip
4	AS3000-2007Overview.zip AS3000_AS3008TablesExtract.zip WiringRules.zip Part (1) Study the following notes Installation_Requirement_1-A.zip Installation_Requirement_1-B.zip Installation_Requirement_2-A.zip Installation_Requirement_2-B.zip

	Stage_2_Wiring.zip in www.electricaldiploma2013.zoomshare.com AUSTRALIAN ELECTRICIAN TRAINING
5	**G007** G007 Lesson 1 AS3000 Wiring rule overview.zip http://www.filefactory.com/file/cf94220/n/G007_Lesson_1_AS3000_Wiring_rule_overview.zip G007 Lesson 2 Maximum Demand calculation.zip http://www.filefactory.com/file/cf9456f/n/G007_Lesson_2_Maximum_Demand_calculation.zip G007 Lesson 3 Cable selection.zip http://www.filefactory.com/file/cf9465c/n/G007_Lesson_3_Cable_selection.zip G007 Lesson 4 Cable voltage drop calculation.zip http://www.filefactory.com/file/cf9479e/n/G007_Lesson_4_Cable_voltage_drop_calculation.zip G007 Lesson 5 Derating of cable part 1.zip http://www.filefactory.com/file/cf95acb/n/G007_Lesson_5_Derating_of_cable_part_1.zip G007 Lesson 6 Derating of cable part 2.zip http://www.filefactory.com/file/cf95a6b/n/G007_Lesson_6_Derating_of_cable_part_2.zip G007 Lesson 7 Derating of cable for HRC fuse protection.zip http://www.filefactory.com/file/cf95cd7/n/G007_Lesson_7_Derating_of_cable_for_HRC_fuse_protection.zip G007 Lesson 8 Final subcircuit fault loop impedance.zip http://www.filefactory.com/file/cf95dd1/n/G007_Lesson_8_Final_subcircuit_fault_loop_impedance.zip **Electrical Installation requirement**
6	Click HERE to download the other exercises

7	**EE07 & EE011 units mapping for Theory study & Exercises** Do the assignments from the following book & submit the assignment (1) Cable_Installation.zip Do the assignments from the following book & submit the assignment (2) Regulatory_Requirement.zip
8	http://www.filefactory.com/file/3qun68epu0lp/n/Advanced_Diploma_in_Electrical_Engineering_Exercises_EE011_pdf
9	EE07 & EE011 units mapping for Theory study & Exercises PRACTICAL Workshop 2+3 WorkShop_Part_2_Practical_1_to_6_.zip WorkShop_Part_2_Practical_7_to_12_.zip WorkShop_Part_2_Practical_13_to_17_.zip WorkShop_Part_2_Practical_18_to_21_.zip ElectricalWorkshopPart3_G008_Group1Machine_.zip ElectricalWorkshopPart3_G008_Group2LineProtection_.zip ElectricalWorkshopPart3_G008_Group3InstrumentsDevices_.zip OTHER PRACTICALS ELECTRICAL_WORKSHOP_PART_2_G003_G004_G009_.zip Electrical_Workshop_Part_2_Practical_1_to_18.zip Electrical_Workshop_Part_2_Practical_19_to_21.zip G003_G004_G009Practicals.pdf In www.electricaldiploma2013.zoomshare.com AUSTRALIAN ELECTRICIAN TRAINING
10	
11	**BACK UP FOR 9 & 10** Stage 2 Part 1B.zip http://www.filefactory.com/file/c0ccac0/n/Stage_2_Part_1B.zip Stage 2 Part 3.zip http://www.filefactory.com/file/c0ccb1f/n/Stage_2_Part_3.zip Stage 2 Part 6.zip http://www.filefactory.com/file/c0cccc0/n/Stage_2_Part_6.zip Stage 3 Part 3.zip http://www.filefactory.com/file/c0ccd44/n/Stage_3_Part_3.zip Stage 3 Part 4.zip http://www.filefactory.com/file/c0ccd9a/n/Stage_3_Part_4.zip Stage 3 Part 5.zip http://www.filefactory.com/file/c0ccefd/n/Stage_3_Part_5.zip

	Stage 3 Part 8.zip http://www.filefactory.com/file/c0ccf09/n/Stage_3_Part_8.zip Stage 3 Part 9.zip http://www.filefactory.com/file/c0ccf48/n/Stage_3_Part_9.zip Stage 4 Part 7.zip http://www.filefactory.com/file/c0cc479/n/Stage_4_Part_7.zip Stage 4 Part 8.zip http://www.filefactory.com/file/c0cc5a1/n/Stage_4_Part_8.zip Stage 4 Part 9.zip http://www.filefactory.com/file/c0cc5db/n/Stage_4_Part_9.zip Stage 4 Part 10.zip http://www.filefactory.com/file/c0cc5f8/n/Stage_4_Part_10.zip

Study Guide EE07 & EE011

What to	study		Which	exercises to do		What practical to	Resources
Main	study	Additional study	Main exercise		Additional exercises	do	
EE07 Unit	EE011 Unit	For EE07+EE011 +Video	Study Option (1) EE-07	Study Option (2) EE-07	for EE011		
UEENEEG 003A Install low voltage wiring and accessories	**UEENEEG 103A Install low voltage wiring and accessories**	See 5 below	See 6 below	See 7 below	See 8 below	See 9 below	See 10 below
Study Option 1	Study Option 1						
See 1 below	See 3 below		EE011	=	EE07 +	Additional	
Study Option 2	Study Option 2						
See 2 below	See 4 below						

1	http://www.filefactory.com/file/c0b67b7/n/Electrical_Workshop_Wi

	ring_E001_2_3_4_5_7_8_33_G003_4_7.zip
2	
3	http://www.filefactory.com/file/c0b67b7/n/Electrical_Workshop_Wiring_E001_2_3_4_5_7_8_33_G003_4_7.zip **G103+104 Notes+Lessons** http://www.filefactory.com/file/2bg8qift6nzh/n/G103_G104_zip
4	Wiring_Notes_1. Wiring_Notes_2 Switchboard_Wiring 1Wiring_E033_E008 2Wiring_E033_E008 Fixing Equipments E002_E005.zip Lighting.zip E_trade_1.zip E_trade_2.zip E_trade_3.zip E_trade_4.zip G008_General_Notes_1.zip G008_General_Notes_2.zip Hazard_Identification.zip G003_G004_Wiring_2_Part_1.zip G003_G004_Wiring_2_Part_2.zip Cable_CktProt_E_Accessories.zip Cable_Conduit_E_Accessories.zip Elect_Installation_Protection_Method_Devices.zip Elect_Installation_Requirement_1.zip Elect_Installation_Requirement_1.zip Elect_Installation_Requirement_2.zip ElectricInstallationDesign.zip ElectSystSafety1.zip ElectSystSafety2.zip FireProtHeatingTestingEarthing.zip GeneralWiring.zip HazardLightingPanel.zip PanelRCDWireSpecial_Installation.zip

	ProtectionMethods.zip in www.electricaldiploma2013.zoomshare.com AUSTRALIAN ELECTRICIAN TRAINING
5	**Electrical wiring + Electrical Installation requirement** G003+G004+G007 Lesson 1 Electrical installation protection.zip http://www.filefactory.com/file/c35d2f2/n/G003_G004_G007_Lesson_1_Electrical_installation_protection.zip G003+G004+G007 Lesson 2 Electrical system safety.zip http://www.filefactory.com/file/cf937ac/n/G003_G004_G007_Lesson_2_Electrical_system_safety.zip G003+G004+G007 Lesson 3 Heating+Cable ckt protection exercise.zip http://www.filefactory.com/file/c0abfe8/n/G003_G004_G007_Lesson_3_Heating_Cable_ckt_protection_exercise.zip G003+G004+G007 Lesson 4 Wiring system.zip http://www.filefactory.com/file/cf939f0/n/G003_G004_G007_Lesson_4_Wiring_system.zip G003+G004+G007 Lesson 5 Hazardous area electrical system.zip http://www.filefactory.com/file/cf94af8/n/G003_G004_G007_Lesson_5_Hazardous_area_electrical_system.zip G003+G004+G007 Lesson 6 Overload protection RCD.zip http://www.filefactory.com/file/cf94bcf/n/G003_G004_G007_Lesson_6_Overload_protection_RCD.zip G003+G004+G007 Lesson 7 RCD + Metering.zip http://www.filefactory.com/file/cf94cae/n/G003_G004_G007_Lesson_7_RCD_Metering.zip G003+G004+G007 Lesson 8 Switch board installation.zip http://www.filefactory.com/file/cf94c40/n/G003_G004_G007_Lesson_8_Switch_board_installation.zip G003+G004+G007 Lesson 9 Cable selection+Maximum demand.zip http://www.filefactory.com/file/cf94dbb/n/G003_G004_G007_Lesson_9_Cable_selection_Maximum_demand.zip G003+G004+G007 Lesson 10 Electrical installation safety testing.zip http://www.filefactory.com/file/cf94123/n/G003_G004_G007_Lesson_10_Electrical_installation_safety_testing.zip
6	Click HERE to download the other exercises
7	**EE07 & EE011 units mapping for Theory study & Exercises** Assessment Read the above notes files and do the assignments for the following tutorial file. WiringPracticals.zip G003G004Tutorial.zip in

	www.electricaldiploma2013.zoomshare.com AUSTRALIAN ELECTRICIAN TRAINING
8	http://www.filefactory.com/file/3qun68epu0lp/n/Advanced_Diploma_in_Electrical_Engineering_Exercises_EE011_pdf
9	**EE07 & EE011 units mapping for Theory study & Exercises** Attend the face to face class PRACTICAL http://www.filefactory.com/file/54l4d5rif1z3/n/Advanced_Wiring_Part_1_zip **Advanced Wiring Part 1+2—G103** http://www.filefactory.com/file/1xb18xg1gaz1/n/Advanced_Wiring_Part_1_and_2_zip **Electrical Installation Safety Testing** http://www.filefactory.com/file/5mv9s6dx174h/n/Electrical_Installation_Safety_Testing_zip Workshop 2+3 WorkShop_Part_2_Practical_1_to_6_.zip WorkShop_Part_2_Practical_7_to_12_.zip WorkShop_Part_2_Practical_13_to_17_.zip WorkShop_Part_2_Practical_18_to_21_.zip ElectricalWorkshopPart3_G008_Group1Machine_.zip ElectricalWorkshopPart3_G008_Group2LineProtection_.zip ElectricalWorkshopPart3_G008_Group3InstrumentsDevices_.zip OTHER PRACTICALS ELECTRICAL_WORKSHOP_PART_2_G003_G004_G009_.zip Electrical_Workshop_Part_2_Practical_1_to_18.zip Electrical_Workshop_Part_2_Practical_19_to_21.zip G003_G004_G009Practicals.pdf
10	Stage 3 Part 8.zip http://www.filefactory.com/file/c0ccf09/n/Stage_3_Part_8.zip Power Distribution Trade Power_Distribution_Trade.zip Metering Metering.zip
11	**BACK UP FOR 9 & 10** Stage 2 Part 1B.zip http://www.filefactory.com/file/c0ccac0/n/Stage_2_Part_1B.zip Stage 2 Part 3.zip http://www.filefactory.com/file/c0ccb1f/n/Stage_2_Part_3.zip Stage 2 Part 6.zip http://www.filefactory.com/file/c0cccc0/n/Stage_2_Part_6.zip Stage 3 Part 3.zip http://www.filefactory.com/file/c0ccd44/n/Stage_3_Part_3.zip Stage 3 Part 4.zip http://www.filefactory.com/file/c0ccd9a/n/Stage_3_Part_4.zip Stage 3 Part 5.zip http://www.filefactory.com/file/c0ccefd/n/Stage_3_Part_5.zip Stage 3 Part 8.zip http://www.filefactory.com/file/c0ccf09/n/Stage_3_Part_8.zip

	Stage 3 Part 9.zip http://www.filefactory.com/file/c0ccf48/n/Stage_3_Part_9.zip Stage 4 Part 7.zip http://www.filefactory.com/file/c0cc479/n/Stage_4_Part_7.zip Stage 4 Part 8.zip http://www.filefactory.com/file/c0cc5a1/n/Stage_4_Part_8.zip Stage 4 Part 9.zip http://www.filefactory.com/file/c0cc5db/n/Stage_4_Part_9.zip Stage 4 Part 10.zip http://www.filefactory.com/file/c0cc5f8/n/Stage_4_Part_10.zip

Study Guide EE07 & EE011

What to study			Which exercises to do			What practical to do	Resources
Main study		Additional study	Main exercise		Additional exercises		
EE07 Unit	EE011 Unit	For EE07+EE011 +Video	Study Option (1) EE-07	Study Option (2) EE-07	for EE011		
	UEENEEG033A Solve problems in single and three phase low voltage electrical apparatus and circuits	See 5 below	See 6 below	See 7 below	See 8 below	See 9 below	See 10 below
Study Option 1	Study Option 1						
See 1 below	See 3 below		EE011	=	EE07 +	Additional	
Study Option 2	Study Option 2						
See 2 belo	See 4 below						

w							

1		
2		
3	http://www.filefactory.com/file/c0b67b7/n/Electrical_Workshop_Wiring_E001_2_3_4_5_7_8_33_G003_4_7.zip **G033** http://www.filefactory.com/file/1b2utxydvcx7/n/G033_zip	
4	Wiring_Notes_1. Wiring_Notes_2 Switchboard_Wiring 1Wiring_E033_E008 2Wiring_E033_E008 Fixing Equipments E002_E005.zip Lighting.zip E_trade_1.zip E_trade_2.zip E_trade_3.zip E_trade_4.zip G008_General_Notes_1.zip G008_General_Notes_2.zip Hazard_Identification.zip G003_G004_Wiring_2_Part_1.zip G003_G004_Wiring_2_Part_2.zip Cable_CktProt_E_Accessories.zip Cable_Conduit_E_Accessories.zip Elect_Installation_Protection_Method_Devices.zip Elect_Installation_Requirement_1.zip Elect_Installation_Requirement_1.zip Elect_Installation_Requirement_2.zip ElectricInstallationDesign.zip ElectSystSafety1.zip ElectSystSafety2.zip FireProtHeatingTestingEarthing.zip GeneralWiring.zip HazardLightingPanel.zip PanelRCDWireSpecial_Installation.zip ProtectionMethods.zip In www.electricaldiploma2013.zoomshare.com AUSTRALIAN ELECTRICIAN TRAINING	
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ctrical_installation_protection.zip

G003+G004+G007 Lesson 2 Electrical system safety.zip

http://www.filefactory.com/file/cf937ac/n/G003_G004_G007_Lesson_2_Electrical_system_safety.zip

G003+G004+G007 Lesson 3 Heating+Cable ckt protection exercise.zip

http://www.filefactory.com/file/c0abfe8/n/G003_G004_G007_Lesson_3_Heating_Cable_ckt_protection_exercise.zip

G003+G004+G007 Lesson 4 Wiring system.zip

http://www.filefactory.com/file/cf939f0/n/G003_G004_G007_Lesson_4_Wiring_system.zip

G003+G004+G007 Lesson 5 Hazardous area electrical system.zip

http://www.filefactory.com/file/cf94af8/n/G003_G004_G007_Lesson_5_Hazardous_area_electrical_system.zip

G003+G004+G007 Lesson 6 Overload protection RCD.zip

http://www.filefactory.com/file/cf94bcf/n/G003_G004_G007_Lesson_6_Overload_protection_RCD.zip

G003+G004+G007 Lesson 7 RCD + Metering.zip

http://www.filefactory.com/file/cf94cae/n/G003_G004_G007_Lesson_7_RCD_Metering.zip

G003+G004+G007 Lesson 8 Switch board installation.zip

http://www.filefactory.com/file/cf94c40/n/G003_G004_G007_Lesson_8_Switch_board_installation.zip

G003+G004+G007 Lesson 9 Cable selection+Maximum demand.zip

http://www.filefactory.com/file/cf94dbb/n/G003_G004_G007_Lesson_9_Cable_selection_Maximum_demand.zip

G003+G004+G007 Lesson 10 Electrical installation safety testing.zip

http://www.filefactory.com/file/cf94123/n/G003_G004_G007_Lesson_10_El

	ectrical_installation_safety_testing.zip **Electrical wiring + Electrical Installation requirement**	
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8	http://www.filefactory.com/file/3qun68epu0lp/n/Advanced_Diploma_in_Electrical_Engineering_Exercises_EE011_pdf	
9	Attend the face to face class http://www.filefactory.com/file/2f8e3fph9trr/n/G106_G033_Practical_zip	
10	Power Distribution Trade Power_Distribution_Trade.zip Metering Metering.zip PRACTICAL Workshop 2+3 WorkShop_Part_2_Practical_1_to_6_.zip WorkShop_Part_2_Practical_7_to_12_.zip WorkShop_Part_2_Practical_13_to_17_.zip WorkShop_Part_2_Practical_18_to_21_.zip ElectricalWorkshopPart3_G008_Group1Machine_.zip ElectricalWorkshopPart3_G008_Group2LineProtection_.zip ElectricalWorkshopPart3_G008_Group3InstrumentsDevices_.zip OTHER PRACTICALS ELECTRICAL_WORKSHOP_PART_2_G003_G004_G009_.zip Electrical_Workshop_Part_2_Practical_1_to_18.zip Electrical_Workshop_Part_2_Practical_19_to_21.zip G003_G004_G009Practicals.pdf In www.electricaldiploma2013.zoomshare.com AUSTRALIAN ELECTRICIAN TRAINING	
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Textbook

Prescribed Texts:

TAFE NSW Higher Education 2012, *Engineering Practices (ENPRA101A) Lecture Notes and Workbook*, lecture notes distributed in Engineering Practices

Recommended Readings:

Hampson, J 2006, *Electrical Trade Principles*, Pearson Education Australia (Chapter 6)

Pethebridge, K & Neeson I 2009, *Electrical Wiring Practice Vol 1*, 7th or latest edition, McGraw Hill, Australia (Chapters 1, 4 and 7)

Pethebridge, K & Neeson I 2002, *Electrical Wiring Practice Vol 2*, 6th or latest edition, McGraw Hill, Australia (Section 22.6)

Standards Australia *AS/NZS 3000:Electrical installations (Wiring Rules)*

Standards Australia *AS/NZS 3008 Electrical installations—Selection of cables*

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Tutorial Exercises

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Further Readings

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Online Practicals

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Text Books for

ENEMP101A Introduction to Engineering Mathematics and Physics
ENEMP102A Foundation Engineering Mathematics and Physics
ENEMP201A Intermediate Engineering Mathematics and Physics
ENEMP202A Advanced Engineering Mathematics and Physics

Giancoli, DC, 2000, Physics For Scientists And Engineers, 4th or latest edition, Volumes 1,2,3, ISBN: 9780132273596.

http://www.filefactory.com/file/7c514m4yw0ov/Giancoli_-_Physics_6th_Solutions_pdf

http://www.filefactory.com/file/1588szswdljx/Giancoli_-_Physics_6th_pdf

Bird, J, 2007, Engineering Mathematics, 4th or latest edition, Newnes Publishing, ISBN: 0-7506-5776-6,

http://www.filefactory.com/file/2z1jzorebdwx/2-john-bird-higher-engineering-mathematics_pdf

http://www.filefactory.com/file/2z1jzorebdwx/2-john-bird-higher-engineering-mathematics_pdf

http://www.filefactory.com/file/6oh03k3msqv1/Basics_of_MATLAB_and_Beyond_pdf

http://www.filefactory.com/file/28cbwzhk6ral/Engineering_Mathematics_4E_pdf

http://www.filefactory.com/file/6uizsgnh2snp/Essentials_of_MATLAB_Programming_pdf

http://www.filefactory.com/file/2z1jzorebdwx/2-john-bird-higher-engineering-mathematics_pdf

http://www.filefactory.com/file/4ljoibd9h6dv/Learning_MATLAB_pdf

http://www.filefactory.com/file/45ftpkh77jsf/MATLAB_Programming_For_Engineers_pdf

http://www.filefactory.com/file/729l3my8kcsp/matlab_quickref_pdf

http://www.filefactory.com/file/2179ehdxp9g5/MatlabNotes_pdf

Text Books for

ENMCC 101A Foundation Mechanical & Civil Engineering Principle
ENMCC 201A Advanced Mechanical & Civil Engineering Principle

http://www.filefactory.com/file/724kx95f2ayf/27767685-Materials-Engineers-Technicians_pdf

http://www.filefactory.com/file/7analtqujo7z/59446893-A-Textbook-of-Engineering-Mechanics-by-R-K-Bansal_pdf

http://www.filefactory.com/file/4k7yvsvt47jr/123974244-strength-of-material-by-r-k-bansal_pdf

http://www.filefactory.com/file/3h4q2snf4kgd/Fluid_Mechanics_and_Thermodynamics_of_Turbomachinery_4E_pdf

http://www.filefactory.com/file/4can70505quj/RE001%2BENERGY%20101A.pdf

http://www.filefactory.com/file/4f92zgjjzg7j/DC%20Power%20Supply.pdf

Part (3) Qualified (2) Course

RE 501-Control of Solar Energy System
RE502- Biomass Gasification
RE503- Energy Management in Industrial and Commercial Facilities
RE504- Engineering Solution for Sustainability
RE505- Green Building Design
RE506- Low Emission Power Generation Technologies
RE507- Offshore Wind Turbines
RE508- Solar Hydrogen Energy System
RE509- Applied Photovoltaics
RE510- Water Conservation
RE511- Sustaining Earth Energy resourcres

A written report between 10,000 – 12,000 words that covers both theory & practical knowledges of the above units.

RE 501-Control of Solar Energy System.pdf (13.93MB)
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RE507- Offshore Wind Turbines.pdf (9.4MB)
http://www.filefactory.com/file/2mtdemeyzub/n/RE507-_Offshore_Wind_Turbines.pdf

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RE511- Sustaining Earth Energy resourcres.pdf (8.43MB)
http://www.filefactory.com/file/38jctruglh59/n/RE511-_Sustaining_Earth_Energy_resourcres.pdf

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RE503- Energy Management in Industrial and Commercial Facilities.pdf (2.89MB)
http://www.filefactory.com/file/3elg8jedxa4l/n/RE503-_Energy_Management_in_Industrial_and_Commercial_Facilities.pdf

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RE506- Low Emission Power Generation Technologies.pdf (22.75MB)
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Part (4) Final Thesis

Res 601 Research Method

MAE 602 Thesis

http://www.filefactory.com/file/1l1r1k0ftawt/n/11.Research+Thesis_(ICT_605).zip

This course guides the student, step by step, through the research process, from problem selection through writing up results. It provides all of the basics necessary to complete a research project in any discipline.

Outline. The following aspects are reflected in this course:

- What is research?
- Tools of research
- The problem: the heart of the research process
- Review of the related literature
- Planning your research design
- Writing the research proposal
- Qualitative research
- Historical research
- Descriptive research
- Experimental and causal - comparative designs
- Statistical techniques for analyzing quantitative data
- Technical details: style, format, and organization of the research report

Masters Research Proposal

Synopsis: Research students are expected to present a written research proposal within three months after commencement. The proposal is handed in to the study leader. Assessors of this proposal are selected by the faculty for their understanding of the field and the research involved. The purpose of a research is to set out a plan for conducting the research and writing the dissertation within the available time. It should take account of the availability and guidance of the study leader. The starting point for a research proposal is the topic, which is the field of interest in which the research is to be carried

out. In introducing the topic, the proposal should clarify the field that it falls into and the specific part that field which the research will explore. It should clarify why the topic is of interest and importance, and how the proposed research will contribute to the filed of knowledge or profession. The proposal should clarify the research questions, ensuring that these are specific and answerable. It is important to show how these questions relate to the topic are, and how they will advance the student's contribution. The proposal should detail the research to be carried out, and clarify the research methods, the timeframe and the reasons for selecting particular methods. Where a period of literature review or research should precede any empirical research, this should be factored in as part of the research. It is important to estimate any periods of field research and to flag their duration and cost in your research proposal.

MAE 601 Professional Engineering Practice

MENG6003 Selective I: management subject (45 hrs) 3 credits

MENG6004 Selective II: management subject (45 hrs) 3 credits

Res 601 Research Method

MENG6005 Quantitative Methods and Statistics (45 hrs) 3 credits

MAE 602 Thesis

Engineering Project/Thesis 24 credits

Candidates need to complete a 60000-words engineering dissertation (in Myanmar or English) and a 3000-words executive portfolio (in English).

This program requires the candidates to complete a dissertation as part of the assessment for the MSc (RE) degree. Doing a thesis means that instead of knowledge and information being presented and following a prescribed route for answering questions, candidates are thrust into an active role of managing an investigation into a topic area. This means researching and discovering things for themselves. They will have to set their own targets and parameters, pose their own central research questions and decide on the appropriate sources of information to support the research. It therefore requires the use of the higher-level cognitive skills of analysis, synthesis and evaluation. Candidates may choose an area of particular interest to them within the scope of course title. A dissertation is an individual effort and the candidate, academic tutor and the course professor will work together on constructing an approved topic (research question) and methodologies.

Engineering Dissertation Defense 9 credits

It is expected of Master's candidates to defend their thesis by means of a colloquium doctum (academic discussion). The purpose of the meeting is for the candidates to convince a panel of experts in the field of the dissertation how well they have done in the conducting of their research study and the preparation of their dissertation

Program Total Credits 48 credits

Candidates need to complete all course assessments with the results of Grade B+ or above.