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Advanced Study

Bachelor of Engineering (Renewable Energy Engineering)

Associate Degree in Applied Engineering (Renewable Energy Engineering)

(4 points / unit x 15 units = 60 points)

Year 1	BE (RE)Units of UNSW
RE101	Mathematics 1A (MATH1131)
RE102	Mathematics 1B (MATH1231)
RE103	Physics 1A (PHYS1121)
RE104	Physics 1B (PHYS1221)
RE105	Engineering Design (ENGG1000)
RE106	Electronics & Telecomm Engineering (1) (ELEC1111)
RE107	Sustainable Energy (SOLA1070)

Year 2	BE (RE)Units of UNSW
RE201	Electronics & Telecomm Engineering (2) (ELEC1111)
RE202	Numerical Methods & Statistics (MATH2089)
RE203	Engineering Materials and Chemistry (MATS1101)
RE204	Project in PV and Solar Energy (SOLA2051)
RE205	Sustainable & Renewable. Energy. Technology (SOLA2053)
RE206	Introduction to Electronics Devices (SOLA2060)
RE207	Applied Photo Voltaics (SOLA2540)
RE208	Project Presentation

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Mapping-RE101+RE202- 1 BAE 401 Advanced Engineering Mathematics

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RE102-**2 BAE 402 Calculus**

www.iqytechnicalcollege.com/BAE402.zip

RE103+104-**3 BAE 403 Engineering Mechanics**

www.iqytechnicalcollege.com/BAE403.zip

RE105+RE204+Re208-**12RE016-Design & Management**

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RE106--+RE201 **11 BAE 604 Telecommunication Engineering**

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RE107-**8 RE005- Renewable Energy Resource Analysis**

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RE203-**10 RE010-Engineering Materials**

www.iqytechnicalcollege.com/RE010.zip

RE205-**6.RE003- Solar and Thermal Energy Systems**

www.iqytechnicalcollege.com/RE003.zip

RE206-**7 RE014-Electronics Control**

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RE207- **5 RE002- Grid Connected Photovoltaic Power Systems**

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Bachelor of Applied Engineering (Renewable Energy Engineering)
(4 points / unit x 15 units = 60 points+ Thesis)

Year 3	BE (RE)Units of UNSW
RE301	Low Energy Buildings and PV (SOLA3010)
RE302	PV Technology & Manufacturing (SOLA3020)
RE303	Software Engineering (COMP3111)
RE304	Analogue Electronics (ELEC2133)
RE305	Power Electronics (ELEC4614)

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RE306	Electromagnetic Engineering (ELEC3115)
RE307	Circuits and Signals (ELEC2134)
RE308	Control Systems (ELEC3114)

Year 4	BE (RE)Units of UNSW
RE401	Fluid Mechanics (MMAN2600)
RE402	Thermodynamics (MMAN2700)
RE403	Computational Fluid Dynamics (MECH9620)

Mapping

RE301-12.RE007- Energy System Efficiency

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RE302-ME 205 of www.iqytechnicalcollege.com/MECertDip.zip

RE304+305 7 RE014-Electronics Control

www.iqytechnicalcollege.com/RE014.zip

RE306-

6 RE013-Electrical Machines

www.iqytechnicalcollege.com/RE013.zip

RE307-11 RE012a-Electrical Engineering Part 1

www.iqytechnicalcollege.com/RE012a.zip

RE308-**BAE 502 Linear System**

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BAE 503 Control System

Day 31 [BAE502+503](#)

Written References

EE601 Feedback & Control System

<http://www.filefactory.com/file/5fa87a0txm93/EE%20601%20Feedback%20and%20Control%20System.pdf>

[www.highlightcomputer.com/Day 31-BAE 503 Control System.zip](http://www.highlightcomputer.com/Day%2031-BAE%20503%20Control%20System.zip)

RE401+403 **6 BAE423 Fluid Mechanics (2 pt)**

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RE402-4 **BAE 404 Engineering Materials & Thermodynamics**

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RE302	PV Technology & Manufacturing (SOLA5020)
RE303	Software Engineering (COMP3111)
RE304	Analogue Electronics (ELEC2133)
RE305	Power Electronics (ELEC4614)

21

RE306	Electromagnetic Engineering (ELEC3115)
RE307	Circuits and Signals (ELEC2134)
RE308	Control Systems (ELEC3114)

Year 4	BE (RE)Units of UNSW
RE401	Fluid Mechanics (MMAN2600)
RE402	Thermodynamics (MMAN2700)
RE403	Computational Fluid Dynamics (MECH9620)
RE404	Strategic Leadership & Ethics (ELEC4122)
RE405	Grid-Connect PV System (SOLA4012)
RE406	Wind Energy Converters (SOLA5053)
RE407	Semiconductor Devices (SOLA5055)
RE408	Thesis

Total 120 Points + Thesis for award of Bachelor of Engineering (Renewable Energy Engineering)

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Advanced Diploma Management Assignments

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RE405-5 RE002- Grid Connected Photovoltaic Power Systems

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RE406-9.RE006- Wind Energy Conversion Systems

www.iqytechnicalcollege.com/RE006.zip

RE407-Amplifier+Power Supply+Digital H011+H012+H013.zip

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<http://highlightcomputergroup4.zoomshare.com/files/H011.zip>

<http://highlightcomputergroup4.zoomshare.com/files/H012.zip>

http://highlightcomputergroup4.zoomshare.com/files/H012_I006-4.Digital_control.zip

http://highlightcomputergroup4.zoomshare.com/files/H013_Part_2.zip

<http://highlightcomputergroup4.zoomshare.com/files/H013.zip>

http://www.mongroupsydne1.com/Advanced_Diploma_in_Electrical_Engineering_Exercises_EE011.pdf

RE408-Engineering Competency Demonstration Report

<http://www.mongroupsydne1.com/E083.pdf>