

Pre-requisites

Year 10 to 12

Year 1-Diploma in Renewable Energy Engineering

List of subjects (Total 30 credits)

RE001- Foundation Studies in Renewable Energy and Sustainability

RE002- Grid Connected Photovoltaic Power Systems

RE003- Solar and Thermal Energy Systems

RE004- Energy Storage Systems

RE005- Renewable Energy Resource Analysis

RE006- Wind Energy Conversion Systems

RE007- Energy System Efficiency

Year 2 Advanced Diploma in Electro-Mechanical Engineering (Renewable Energy Construction) (Total 60 Credits)

Semester (1)

RE008-Mathematics & Physics (I)

RE009-Mathematics & Physics (II)

RE010-Engineering Materials

RE011-Civil & Mechanical Engineering

Semester (2)

RE012-Electrical Engineering

RE013-Electrical Machines

RE014-Electronics Control

RE015-Electrical Project

Final Project

RE016-Design & Management

Year 3+4 Bachelor of Applied Engineering Technology(Renewable Energy Engineering)

(2 points / unit x 15 units = 30 points)

Year 3

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 4

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

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

Year 5

RE301	Low Energy Buildings and PV (SOLA3010)
RE302	PV Technology & Manufacturing (SOLA3020)
RE303	Software Engineering (COMP3111)
RE304	Analogue Electronics (ELEC2133)
RE305	Power Electronics (ELEC4614)
RE306	Electromagnetic Engineering (ELEC3115)
RE307	Circuits and Signals (ELEC2134)
RE308	Control Systems (ELEC3114)

Year 6

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 Professional Diploma/Bachelor of Engineering (Renewable Energy Engineering)

ASSESSMENT MODE- Submission of Study Records/ Assignments/ Test in some subjects/ Project , Thesis

ONLINE ENROLMENT

<http://www.iqytechnicalcollege.com/enrolment.htm>

