PROGRAM PLAN

BACHELOR OF RENEWABLE ENERGY ENGINEERING (HONOURS)

PROGRAM OPTION:
Full time or Part time

START DATE:
Semester 2, 2021

LOCATION:
Callaghan

This Program Plan is an enrolment guide to ensure you are on track to graduate. If at any time you wish to vary from this program plan seek advice from your Academic Program Advisor to ensure you remain on track.

PROGRAM HANDBOOK
COURSE HANDBOOK

NAME:
STUDENT NO.:

If you have any questions visit NEWCASTLE.EDU.AU/ASKUON

COURSE STATUS KEY
C = Completed
En = Enrolled
NS = Not Started

COMPULSORY PROFESSIONAL PRACTICE: INDUSTRIAL EXPERIENCE – 12 WEEKS

YEAR 1
SEMESTER 1
ELEC2320 Electrical and Electronic Circuits
ENGG1003 Introduction to Procedural Programming
ENGG1500 Introduction to Professional Engineering

SEMESTER 2
CHEE1000 Process Engineering Principals
MATH1120 Mathematics for Engineering, Science and Technology 1

YEAR 2
SEMESTER 1
ELEC1310 Introduction to Electrical Engineering

YEAR 3
SEMESTER 1
CHEE2325 Thermodynamics of Chemical Processes
CHEE2695 Energy Transfer and Technologies
CHEM1010 Introductory Chemistry 1

SEMESTER 2
CHEE2325 Thermodynamics of Chemical Processes
CHEE2825 Chemical and Renewables Engineering Laboratory

YEAR 4
SEMESTER 1
CHEE4945A Design Project A
RENE3000 Solar and Wind
RENE4900A Renewable Energy Engineering Project A

SEMESTER 2
CHEE4945B Design Project B
EMEC4500 Engineering Complexity
RENE3100 Geothermal, Hydro, Ocean and Hybrid Systems

YEAR 5
SEMESTER 1
ENGG3500 Managing Engineering Projects
RENE4000 Energy Storage Systems

SEMESTER 2
RENE2000 Bioenergy

YEAR 6
SEMESTER 1
ENGG4500 Engineering Complexity
RENE3100 Geothermal, Hydro, Ocean and Hybrid Systems

SEMESTER 2
RENE4900B Renewable Energy Engineering Project B

YEAR 7
SEMESTER 1
ENGG4500 Engineering Complexity

SEMESTER 2
RENE4900B Renewable Energy Engineering Project B
To be eligible to graduate make sure you have completed 320 units (10 units = 1 course unless otherwise specified) which meet the following criteria:

- **Core courses** – 280 units

  Enrolment in MATH courses is based on your assumed knowledge. To find out which MATH courses you should enrol in please see the Enrolling in Maths information. More information in your Program Handbook.

  Please also note the following regarding the multi-term sequence courses research courses:
  - CHEE4945A Design Project A (10 units) and CHEE4945B Design Project B (10 units) must be completed in consecutive terms.
  - RENE4900A Renewable Energy Engineering Project A (10 units) and RENE4900B Renewable Energy Engineering Project B (10 units) must be completed in consecutive terms.

- **Elective Pathway** – 40 units, visit the Program Handbook for more information. Students who do not meet the enrolment requisite for MATH1110 and must take MATH1002 and will count MATH1002 as one of their 10 unit elective courses. Contact Programadvice@newcastle.edu.au for further advice regarding your Program Plan if you need MATH1002.

- Students must not exceed 120 units at 1000 level in this program.

- It is also a requirement that students complete a total of 12 weeks of industrial experience.

- The duration of this program is 4 year full-time (40 units per semester) or part-time equivalent.

- The maximum time to complete this program is 10 years.

Some courses have assumed knowledge and/or requisites, please refer to the individual Course Handbook. Please refer to the Program Handbook for specific information on program structure. If you are intending varying from this program plan please seek advice from your Program Advisor.