Year 3 Semester 2

LAW 313 **Environmental Law CHE 312** Aquatic Chemistry **BIO 313** Marine Biology

Environmental and Applied Chemistry CHE 313

Diploma in Environmental Science Programme

This programme is comprised of a total of 16 courses over a two year period. The programme follows the same structure as Year 1 and Year 2 in Bachelor of Environmental Science programme (given above).

Postgraduate Diploma in Energy and Environment

The programme duration is 1 year full time or longer if part time.

Compulsory course:

REE 400 Research Methods in Energy and Environment,

plus any one course from the following list:

REE 401 Utilization of Renewable Energy Resources

Climate Change and Environment **REE 402** Environment and Energy Policy, **REE 403**

as well as any two courses from the following list:

REM 400 Renewable Energy Technologies I **REM 401** Renewable Energy Technologies II **REM 402**

Renewable Energy and Sustainable

Development

Renewable Energy Technologies III **REM404**

Master's Degree in Renewable Energy Management

The programme duration is 2 years full time or longer if part time.

Year 1 Semester 1

REM 400 Renewable Energy Technologies I Renewable Energy Technologies II **REM 401**

Year 1 Semester 2

REM 402 Renewable Energy and Sustainable

Development

Energy Economic and Management REM 403

Year 2 Semester 1

Students must choose any two of the following three courses.

REM 404 Renewable Energy Technologies III

Sustainable and Environmental Chemistry **REM 405**

Energy Modeling and Forecasting REM 406

Year 2 Semester 2

REM 407 Research Thesis / Industrial Attachment and

Report



School of Science & Technology

"Envision, Innovate and Inspire"

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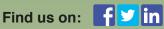
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Science

Envision, Innovate and Inspire

Studying Science

The ultimate aim of science is to study the structure and behaviour of the physical and natural world through observations and experimentation. The contribution of science and technology to the development of mankind and our planet is obvious. In every aspect of life, we have benefitted from the great strides in science and technology.

Fiji, like all countries, needs people with good training, skills and knowledge in science and technology to assist in its development. UniFiji has now embarked on offerings in science to provide the opportunity to our young people to get a solid platform from which to embark on meaningful careers. The science programmes on offer are unique and adopt a multi-disciplinary approach.

Programmes of Study

The Department of Science is offering double majors with emphasis in Biology, Chemistry and Physics as part of the Bachelor of Science (BSc) 3 year degree programme. Students can choose to combine these majors with each other and with other subjects, e.g. double majors in Biology/Chemistry, Chemistry/Information Technology, Physics/Mathematics etc.

The department is also offering Diploma/Bachelor in Environmental Science. That program has a unique interdisciplinary structure comprising of courses in Basic Natural Sciences, Agriculture, Geology and Mining, Natural resource management and Environmental Law.

In addition to this, Foundation science is offered as well where students can enroll for pure science foundation courses or combine few science courses with courses from other disciplines such as Mathematics and IT.

In higher education, the department is offering a Master's in Renewable Energy Management (REM) Degree programme. The programme was developed and implemented under the EU funded Renewable Energy in the Pacific Islands: Developing skills and Capacity (EPIC) project in collaboration with project partners from the University of Alicante, Spain and the University of Papua New Guinea.

Admission Requirements

Degree Programme

- Pass in the University Foundation Programme (or its equivalent) with Pass in LLCF11, LLCF12 and 5 other foundation courses.
- Pass in Fiji Seventh Form Examination (FSFE) or its equivalent (at least 200 marks in 4 subjects with 50% in English), OR

- Pass in Fiji School Leaving certificate (FSLC) or its equivalent (at least 200 marks in 4 subjects with 50% in English) and 2 years of relevant work experience, OR
- Admission with standing (mature entry admission). This will depend on the candidates satisfactory fulfillment of the stipulated regulations set out by the university.

Postgraduate Diploma in Energy and Environment (PGDEE)

 BSc in physics, chemistry, environmental science, other sciences, engineering or in a closely related field.
 Candidates admission will depend upon satisfactory fulfillment of the stipulated regulations set out by the university.

Master's Degree in Renewable Energy Management (REM)

 BSc in physics, chemistry, environmental science, engineering or in a closely related field. Candidates admission will depend upon satisfactory fulfillment of the stipulated regulations set out by the university.

Courses Offered

Bachelor of Science (BSc) programme

Biology

Foundation: BIOF 11 Foundation Biology I

BIOF 12 Foundation Biology

Year 1: BIO 111 Animal Biology

BIO 112 Plant Biology

Year 2: BIO 211 Biodiversity & Conservation

BIO 212 Genetics BIO 213 Ecology BIO 214 Microbiology

Year 3: BIO 311 Research Topics in Biology

BIO 312 Physiology BIO 313 Marine Biology BIO 314 Evolutionary Biology

Chemistry

Foundation: CHEF 11 Foundation Chemistry I

CHEF 12 Foundation Chemistry II

Year 1: CHE 111 Principles of Inorganic and Physical

Chemistry

Year 2: CHE 112 Principles of Organic Chemistry

CHE 211 Physical & Inorganic Chemistry
CHE 212 Organic and Analytical Chemistry

Year 3: CHE 311 Quantitative & Qualitative

Techniques

CHE 312 Aquatic Chemistry

CHE 313 Environmental & Applied

Chemistry

CHE 314 Biochemistry

Physics

Foundation: PHYF 11 Foundation Physics I

PHYF 12 Foundation Physics II

Year 1: PHY 111 Physics 1

PHY 112 Physics 2

Year 2: PHY 212 Atmospheric Physics

PHY 213 Quantum Physics

PHY 214 Physics of the Environment

Year 3: PHY 311 Research Topic in Physics

PHY 312 Renewable Energy resources PHY 313 Meteorological Physics

PHY 313 Meteorological Physics
PHY 314 Electricity and Electronics
PHY 315 Environmental Soil Physics

Inter-Disciplinary Courses

Year 2: ESC 201 Climate Change & Society

Bachelor of Environmental Science Programme

This programme is comprised of a total of 24 courses over a three year period. Students are required to do 8 x 100 Level courses. 8 x 200 Level courses and 8 x 300 Level Courses.

Course Breakdown

Year 1 Semester 1

BIO 111/BIO 112 Animal Biology/ Plant Biology

ITC 100 Information Technology for the Workplace

CHE 111 Principles of Inorganic and Physical

Chemistry

PHY 111 Physics 1

Year 1 Semester 2

HIC 111/ ITK 111 Spoken Hindi for Beginners/ Spoken

Fijian for Beginners

LLC 101 English for Academic Purpose CHE 112 Principles of Organic Chemistry

UUU 100 Social Research

Year 2 Semester 2

UUU 200 Contemporary Fiji

ESC 201 Climate Change & Society

ESC 200/ Geographical Information Systems/
CHE 212 Organic and Analytical Chemistry

BIO 213 Ecology

Year 3 Semester 1

UUU 300 Governance & Ethics
PHY 315 Environmental Soil Physics
ESC 301 Agricultural Biotechnology
ESC 300 Natural Resource Management