Year 3 Semester 2

LAW 313	Environmental Law
CHE 312	Aquatic Chemistry
BIO 313	Marine Biology
CHE 313	Environmental and Applied Chemistry

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

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
REM404	Renewable Energy Technologies III

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
REM 401	Renewable Energy Technologies II

Year 1 Semester 2

REM 402	Renewable Energy and Sustainable Development
REM 403	Energy Economic and Management

Year 2 Semester 1

Students must choose any two of the following three courses.

REM 404	Renewable Energy Technologies III
REM 405	Sustainable and Environmental Chemistry
REM 406	Energy Modeling and Forecasting

Year 2 Semester 2

REM 407	Research Thesis / Industrial Attachment and Report

The University of Fiji

School of Science & Technology

"Envision, Innovate and Inspire"

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The University of Fiji

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 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/ CHE 212	Geographical Information Systems/ 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