



The University of Fiji

(An Entity of Arya Pratinidhi Sabha of Fiji)



Private Mail Bag, Lautoka, Republic of the Fiji Islands, Phone: +679 6640600, Fax: +679 6640700,
Email: info@unifiji.ac.fj webpage: www.unifiji.ac.fj

Programme Name: Bachelor of Agricultural Engineering

Programme Description

The Bachelor of Agricultural Engineering is designed for current and prospective students in the rapidly growing field of Agriculture. This degree programme is flexible enough to fit the interests and needs of a wide variety of students and is designed for students planning to gain the capability of hands-on work experience and make them work-ready. BAE will furnish the students with the necessary skills in developing engineering technology for sustainable agricultural sector development aiming at improving national food security and agricultural export.

Number of courses: 24

Total credit point : 360

Admission Requirements

To be admitted into the Bachelor of Agricultural Engineering programme under the Science Department of the University of Fiji, an individual must:

- a. Achieve an aggregate of at least 200 marks out of 400 and a minimum of 50% in English in the Year 13 Examination or equivalent.
- b. The individual must have taken at least two Science or related courses in Year 13 or equivalent.
- c. Apart from these requirements, individuals should meet other admission criteria outlined under clause 2.0 of University academic regulations and procedures.
- d. Mature Student Admission: Individuals may be admitted as mature students if –
 - They are over 21 years old; and
 - The Senate or its delegate determines that they will likely complete the Bachelor of Agricultural Engineering programme successfully based on their academic background and work experience; and
 - They pass any course(s) or examination(s) that may be required by the Senate or its delegate on a case-by-case basis.

- e. Has attained at least a Diploma/Trade Diploma in Environmental Science/Agriculture/Agroforestry/Fisheries/Forestry/Aquaculture/or similar.
- f. Has attained at least a Diploma/Trade Diploma in Engineering (any emphasis) or similar.

Duration of the programme

The Bachelor of Agricultural Engineering programme is a 3-year full time programme, where students are required to complete 24 courses with a total of 360 credit points. Students enrolled in the Bachelor of Agricultural Science programme would need to complete at least 5 weeks of industrial attachment within the agricultural sector.

Estimated Tuition Fees - Local (FJD): \$

Estimated Tuition Fees –International (FJD): \$

Programme Structure

Year 1 Semester 1

Course Title	Credit Points
PHY111 Physics I	15
MTH113 Introduction to Statistics	15
BIO112 Plant Biology	15
ITK111 Spoken iTaukei Language for Beginners/ HIC111 Spoken Hindi for Beginners	15

Year 1 Semester 2

Course Title	Credit Points
LLC101 English for Academic Purposes	15
CHE112 Principles of Organic Chemistry	15
ESC103 Introduction to Scientific Research	15
ITC100 Information Technology for the Workplace	15

Year 2 Semester 1

Course Title	Credit Points
BIO215 Integrated Pest Management	15
PHY214 Physics of the Environment	15
ESC203 Geographic Information System	15
AGE201 Agricultural Export Systems and Pathways	15

Year 2 Semester 2

Course Title	Credit Points
ESC202 Agroecology	15
ESC201 Climate Change and Society	15
CHE212 Organic and Analytical Chemistry/ BIO212 Genetics	15
AGE202 Mechanisation in Agricultural Practices	15

Year 3 Semester 1

Course Title	Credit Points
PHY315 Environmental Soil Physics	15
ESC303 Environmental Impact Assessment	15
*AGE300 Industrial Attachment	15
AGE301 Agricultural Technology	15

* Students can carry out the industrial attachment during semester breaks

Year 3 Semester 2

Course Title	Credit Points
ECO305 Agricultural Economics	15
PHY312 Renewable Energy Resources/ BIO315 Aquaculture and Mariculture	15
PHY314 Electricity and Electronics/ CHE313 Environmental and Applied Chemistry	15
BIO311 Research Topics in Plant Biology/ PHY311 Research Topics in Physics	15

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***Disclaimer:** The University of Fiji reserves the right to amend this programme document.*