The University of Fiji

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Programme Name: Bachelor of Science in Physics/Information Technology

Programme Description

The programme aims to integrate knowledge from Physics and Information Technology to disperse necessary skills to understand and think critically about the physical world and how it works. The focus is to enable students to be able to think outside the box and come up with localized scientific solutions that concern the application of information technology in physical sciences. Students will learn about the laws that govern nature through a range of experimental techniques used in physics labs to develop scientific thinking and with the application of current IT technology, be able to effectively glean embedded information in relevant data followed by an effective presentation of such information. This programme will provide graduates that can carry out relevant problem-solving in the area of climate change, renewable energy, energy modelling and climate modelling, which for there is a rising demand in the country. A combination of IT and Physics would allow the graduate to focus on more cutting-edge research in many areas including but not limited to energy forecasting.

This Bachelor of Science in Physics/Information Technology programme consists of 24-course units amounting to 360 credit points. Students must complete all compulsory courses and elective courses.

Admission Requirements:

Persons shall be eligible to be admitted to study for a Bachelor of Science Physics/Information Technology if they have:

a) Direct Entry - Year 13 (FSFE) or Equivalent
i. Passed the University Foundation Programme; or
ii. Passed Fiji Year 13 Examination with an aggregate of at least 200 marks in 4 subjects with a minimum of 50% in English and The individual must have taken Physics and Information Technology or related courses in Year 13 or equivalent; or
iii. Pass in Fiji School Leaving Certificate (FSLC) or its equivalent (at least 200 marks in 4 subjects with 50% in English), the individual must have taken Physics and Information Technology or related courses in Year 12 or equivalent and 2 years of relevant work experience, OR
iv. Passed an examination deemed by the University to be equivalent to the University Foundation Education Certificate

Duration of the programme: Full-time duration is for 3 years with 4 courses per semester. Part-time basis students have a duration of 6 years with a minimum of 2 courses per semester.
Location: Samabula and Saweni
Estimated Tuition Fees - Local (FJD): $11,750.00
Estimated Tuition Fees –International (FJD): $23,500.00

Programme Structure
Year 1 Semester 1

Course Code	Course Title	Credit Points
ITC106	Programming Concepts and Construct	15
LLC 101	English for Academic Purpose	15
PHY 111	Physics 1	15
ITC 100	Information Technology for the workplace	15

Year 1 Semester 2

Course Code	Course Title	Credit Points
ITC 115	Introduction to Software Engineering	15
PHY 112	Physics 2	15
ESC103	Introduction to Scientific Research	15
ITK 111/HIC 111	Spoken i-Taukei Language for Beginners / Spoken Hindi for Beginners	15

Year 2 Semester 1

Course Code	Course Title	Credit Points
ITC 203	System Software Architecture	15
PHY212	Atmospheric Physics	15
PHY214	Physics of the Environment	15
UUU 200	Contemporary Fiji	15

Year 2 Semester 2

Course Code	Course Title	Credit Points
ITC262	Professional Practice in IT	15
ITC208	System Project and Quality Management	15
PHY213	Quantum Physics	15
ESC 201	Climate Change and Society	15

Year 3 Semester 1

Course Code	Course Title	Credit Points
ITC314	Web Design and Programming	15
ITC355	Business Intelligence	15
PHY315/PHY313/ PHY311	Environmental Soil Physics/ Meteorological Physics/Research Topics in Physics	15
ESC300	Natural Resource Management	15

Year 3 Semester 2

Course Code	Course Title	Credit Points
UUU300	Governance and Ethics	15
ITC307	IT Project	15
PHY314	Electricity and Electronics	15
PHY 312	Renewable Energy Resources	15

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