

Programme Name	Certificate IV in Electrical Engineering
Programme Description	<p>The main purpose of this programme is to prepare students for employment in Certificate IV level occupations specializing in electrical engineering practices. The programme is directed towards occupations with typical job titles such as technical officer or trade person.</p> <p>The general characteristics of the programme are as outlined in The University Academic & Student Regulation of the Fiji National University and, more specifically, the programme aims to provide a broad based, initial vocational programme for the technical workforce, specializing in electrical engineering.</p>
Majors	Electrical
Minimum Requirements	<p>A Pass in Year 12 or</p> <p>Graduated with Certificate III in Electrical Engineering or</p> <p>Completion of at least two years relevant industrial experience (RPL) for mature age applicants who are at least 21 years of age and over and who, on the basis of maturity and work experience are considered likely to be able to succeed.</p>
Duration	8 months face to face delivery and 12 months industrial attachment
Programme Type	Certificate
College Name	College of Engineering, Science and Technology
Campus	Derrick Campus, Samabula/Ba Campus/ Labasa Campus
Credit Points	120 Credit Points

Programme Structure		
Course Code	Course Title	Credit Points
Year 1 Quarter 1		
EEC320	Electrical Fitting Practice	5
EEC321	Electrical Building Practice	5
EEC301	Electrical Calculations I	5
EEC324	Engineering Drawing	5
EEC325	Electrical Testing and Measurement	5
COM303	Technical Communications	5
Year 1 Quarter 2		
EEC326	Material Science for Trade	5
EEC327	Electrical Calculations II	5
EEC328	Electrical Installation Practice I	5
EEC329	Electrical Trade Principles I	5

OHS301	Occupational Health and Safety	5
ETH301	Introduction to Ethical Practices	5
	Year 1 Quarter 3	
EEC425	Machine Winding Practice	5
EEC415	Photovoltaic System	5
EEC416	Principles of AC Circuit	5
EEC417	Electronic Circuit and Testing	5
EEC418	Electrical Installation Technology I	5
EEC419	Electrical Installation Practice II	5
	Year 1 Quarter 4	
EEC420	Three Phase Systems and Rectifiers	5
EEC422	Electrical Installation Technology II	5
EEC423	Electrical Installation Practice II	5
EEC424	Electrical Motors and Starters	5
EEC426	Programmable Logic Controllers	5
EEC427	Supervisory Control and Data Acquisition	5
	Year 2	
	Industry attachment for 12 months in relevant electrical discipline.	0
Total Credit Points		120

Course Prerequisite		
Course Code	Course Title	Prerequisite
EEC320	Electrical Fitting Practice	MER
EEC321	Electrical Building Practice	MER
EEC301	Electrical Calculations I	MER
EEC324	Engineering Drawing	MER
EEC325	Electrical Testing and Measurement	MER
COM303	Technical Communications	MER
EEC326	Material Science for Trade	MER
EEC327	Electrical Calculations II	Pass in EEC301
EEC328	Electrical Installation Practice I	Pass in EEC320 and EEC321
EEC329	Electrical Trade Principles I	Pass in EEC325
OHS301	Occupational Health and Safety	Pass in EEC325
ETH301	Introduction to Ethical Practices	Pass in EEC324
EEC425	Machine Winding Practice	Pass in EEC328

EEC415	Photovoltaic System	Pass in EEC325 or EEE326
EEC416	Principles of AC Circuit	Pass in EEC329
EEC417	Electronic Circuit and Testing	Pass in EEC329
EEC418	Electrical Installation Technology I	Pass in EEC329
EEC419	Electrical Installation Practice II	Pass in EEC328
EEC420	Three Phase Systems and Rectifiers	Pass in EEC416
EEC422	Electrical Installation Technology II	Pass in EEC418
EEC423	Electrical Installation Practice II	Pass in EEC419
EEC424	Electrical Motors and Starters	Pass in EEC416
EEC426	Programmable Logic Controllers	Pass in EEC417
EEC427	Supervisory Control and Data Acquisition	Pass in EEC417