Programme Name	**Certificate IV in Biomedical Engineering**
Programme Description	The Certificate IV in Biomedical Engineering programme is offered in 4 quarters. Each quarter comprises of 8 weeks. Each quarter consist of 6 courses. Each course consists of 5 credit point. The main purpose of this programme is to prepare students for employment in Certificate IV level occupations specializing in trade level biomedical engineering work in hospitals or biomedical engineering technology industries. The programme is directed towards occupations with typical job titles such as Biomedical trade's person. 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 Biomedical Engineering technology.
Majors	Biomedical Engineering
Minimum Requirements	A Pass in Year 12 **OR** 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.
Duration	**About 2 years (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 (Stages 1 & 2) (Stages 3 & 4 transfer to Derrick Campus) Labasa Campus (Stages 1 & 2) (Stages 3 & 4 transfer to Derrick Campus)
Credit Points	**120 Credit Points plus 60 for internship**

Programme Structure		
Course Code	**Course Title**	**Credit Points**
	Year 1 Quarter 1 – Stage 1	
EEC301	Electrical Calculations I	**5**
EEC302	Electrical Principles I	**5**
EEC303	Workshop Practice I	**5**
ETH301	Introduction to Ethical Practices	**5**
EEC305	Electrical Measurement & Component	**5**
COM303	Introduction to Communication Literacy	**5**
	Total credits	**30**
	Year 1 Quarter 2 – Internship	
	Year 1 Quarter 3 – Stage 2	**5**
EEC306	Electrical Principles II	**5**
EEC307	Workshop Practice II	**5**
EEC308	Analogue Electronics I	**5**
EEC362	Electronic Communication System I	**5**
EEC309	Digital Electronics I	**5**
OHS301	Occupational Health & Safety	**5**
	Total credits	**30**
	Year 1 Quarter 4 – Internship	
	Year 2 Quarter 1 – Stage 3	
ACR498	Refrigeration Principles	**5**
BMT442	Introduction to Human Biology & Infection Control	**5**
EEC498	Network Fundamentals	**5**
EEC447	Microcontroller Applications	**5**
EEC451	Introduction to Mechatronics	**5**
PME442	Hydraulics & Pneumatics 1 (E)	**5**
	Total credits	**30**
	Year 2 Quarter 2 – Internship	
	Year 2 Quarter 3 – Stage 4	
EEC471	Electronic Biomedical Materials and Device	**5**
BMT474	Medical Imaging Processing	**5**
EEC426	Programmable Logic Controller	**5**
EEC492	Electronic Biomedical Instrumentation	**5**
EEC466	Introduction to Bioinformatics	**5**
EEC491	Biomedical Engineering Project	**5**
	Total credits	**30**

	Year 2 Quarter 4 – Internship	
Total Credit Points		**120**
Internship/Industrial Attachment (12 months)		**60**
Total Credits		**180**

Course Prerequisite		
Course Code	**Course Title**	**Prerequisite**
EEC301	Electrical Calculations I	MER
EEC302	Electrical Principles I	MER
EEC303	Workshop Practice I	MER
ETH301	Introduction to Ethical Practices	MER
EEC305	Electrical Measurement & Component	MER
COM303	Introduction to Communication Literacy	MER
EEC306	Electrical Principles II	EEC302
EEC307	Workshop Practice II	EEC303
EEC308	Analogue Electronics I	EEC305
EEC362	Electronic Communication System I	EEC302 EEC305
EEC309	Digital Electronics I	EEC301 EEC302
OHS301	Occupational Health & Safety	MER
ACR498	Refrigeration Principles	EEC302
BMT442	Introduction to Human Biology & Infection Control	MER
EEC498	Network Fundamentals	EEC309
EEC447	Microcontroller Applications	EEC309
EEC451	Introduction to Mechatronics	EEC308 EEC309
PME442	Hydraulics & Pneumatics 1 (E)	EEC307
EEC471	Electronic Biomedical Materials and Device	BMT442
BMT474	Medical Imaging Processing	BMT442
EEC426	Programmable Logic Controller	EEC447
EEC492	Electronic Biomedical Instrumentation	EEC447 BMT442
EEC466	Introduction to Bioinformatics	BMT442 EEC498
EEC491	Biomedical Engineering Project	ALL UNITS FROM STAGE 3