Programme Name	**Higher Education Diploma in Industrial Laboratory Technology**
Programme Description	Higher Education Diploma
Majors	Industrial Laboratory Technology
Minimum Requirements	A Pass in Year 13 with 200 out of 400 marks with 50% minimum marks in English and 3 Science subjects
Duration	Five Semesters
Programme Type	Higher Education Diploma
College Name	College of Engineering Science & Technology
Campus	Nabua Campuses
Credit Points	300

Program Structure (Chemistry Double Major)		
Course Code	**Course Title**	**Credit Points**
	Year 1 Semester 1	
CHM503SEM	General Chemistry	15
BIO508SEM	Cell Biology	15
FDT504SEM	Food Biotechnology	15
MTH510SEM	Elementary Algebra and Statistics	15
CIN506SEM	Computer Principles	15
	Year 1 Semester 2	
CHM502SEM	Fundamentals of Analytical Chemistry	15
CHM504SEM	Organic Chemistry	15
PHY506SEM	Introductory Physics	15
ETH501SEM	Ethics Values and Governance 3	15
LNG501SEM	English for Academic Studies	15
	Year 2 Semester 1	
CHM601SEM	Instrumental Chemistry	14
CHM615SEM	Good Laboratory and Manufacturing Practices	15
MTH602SEM	Statistical Mathematics	15
PHY601SEM	Environmental Physics	15
	Year 2 Semester 2	
CHM613SEM	Analytical Research Project	15
CHM614SEM	Industrial Hygiene and Chemical Safety	15

CHM616SEM	Industrial Chemistry for Foods and Beverages	15
BIO602SEM	Industrial Microbiology	15
CHM613SEM	Analytical Research Project	15
	Year - 2/3, Semester - 1/2	
	Field Attachment	30
	Total Credit Points	**300**

Course		
Course Code	**Course**	**Prerequisi**
CHM502SEM	Fundamentals of Analytical Chemistry	Pass in Form Seven Chemistry or CHM402 and CHM403 or equivalent
CHM503SEM	General Chemistry	Pass in Form Seven Chemistry or CHM402 and CHM403 or equivalent
CHM504SEM	Organic Chemistry	Pass in Form Seven Chemistry or CHM402 and CHM403 or equivalent
BIO508SEM	Cell Biology	Pass in Form Seven Biology or BIO403
CIN506SEM	Computer Principles	None
ETH501SEM	Ethics Values and Governance 3	None
FDT504SEM	Food Biotechnology	BIO501 and FDT502
LNG501SEM	English for Academic Studies	Pass in Form Seven English or equivalent
MTH510SEM	Elementary Algebra and Statistics	Pass in Form Seven Mathematics or
PHY506SEM	Introductory Physics	None
CHM601SEM	Instrumental Chemistry	CHM503
CHM613SEM	Analytical Research Project	CHM502
CHM614SEM	Industrial Hygiene and Chemical Safety	CHM502
CHM615SEM	Good laboratory and Manufacturing	None
CHM616SEM	Industrial Chemistry for Foods and	CHM503 and CHM504
BIO602SEM	Applied Microbiology	BIO508
MTH602SEM	Statistical Mathematics	MTH503 or MTH510
PHY601SEM	Environmental Physics	PHY506
XXX	Industrial Attachment	Completion of Year 1 Units
Pre-Diploma Bridging Units		
CHM301	Preliminary Chemistry I	Pass in year 11/Form 5 with chemistry or
CHM302	Preliminary Chemistry II	Pass in year 11/Form 5 with chemistry or
CHM402	Foundation Chemistry I	Pass in year 12/Form 6 with chemistry or
CHM403	Foundation Chemistry II	Pass in year 12/Form 6 with chemistry or