

# SCHOOL OF COMPUTER SCIENCE

**Master of Forensic Information & Technology**

**(M.FIT.)**



CHRIST'S  
UNIVERSITY IN PACIFIC

PROGRAM OF

# FORENSIC IT

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CHRIST-CENTERED · BIBLE-BASED

**And the Truth shall make you Free!**

**John 17:17**

**2023**

**“TNQAB Act Cap 30.14 of the 2016 Revised Edition”**

**CUP School of Computer Science Handbook  
Department of Forensic IT**

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Christ’s University in Pacific  
Nuku’alofa, Tonga  
KINGDOM OF TONGA**

# PROGRAMME REGULATIONS

## Master of Forensic IT

### DESCRIPTION

A Master of Forensic IT (M.FIT) introduces students to the frontiers of knowledge and trains them in the relevant techniques of forensic IT. Students will gain an advanced understanding and knowledge of forensic IT from the point of view of Forensic science is any kind of science used in the legal or justice system to support and uphold the law. When a crime has been committed and evidence is collected at the scene, scientists analyse it, arrive at scientific results and give expert court testimony about their findings. Forensic science concentrates on facts that prove something did or did not happen in a criminal or civil case.

**Delivery Mode:** *Mostly face-to-face and self-directed learning. Additional learning materials are offered via the University's learning management system.*

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**Student Learning Hours:** The learning hours are a guide to the total time needed for a student to complete the paper:

**On campus sessions** 48

**Self-Directed Learning** 102

**Total learning Hours** 150

**Content Statement** The learning hours are a guide to the total time needed for a student to complete one course:

**Start Date:** Semester 1, 2023

**Qualification Developer** Christ's University in Pacific

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Phone: (+676) 28-125

## CUP CALENDAR YEAR 2023

<p><b>JANUARY</b></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>M</th><th>T</th><th>W</th><th>R</th><th>F</th><th>Sa</th><th>Su</th></tr> </thead> <tbody> <tr> <td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td></tr> <tr> <td>30</td><td>31</td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>	M	T	W	R	F	Sa	Su	23	24	25	26	27	28	29	30	31						<ul style="list-style-type: none"> <li>● 25<sup>th</sup> January: CUP UNIVERSITY STAFF &amp; TEACHERS BEGINS @ 10am</li> <li>● 27<sup>th</sup> and 31<sup>st</sup> January: STAFF PROFESSIONAL DEVELOPMENT @ 10am</li> </ul>																												
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25	26	27	28	29	30	31																																												

Tonga Public Holidays will update!

# PROGRAMME SCHEDULE

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## Programme Schedule

This Programme Schedule applies to the CUP Master of Forensic IT (M.FIT)  
Level 8 & 9 Credits 240.

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## Entry requirements

Completed one of the following with a B grade average or higher at level 7 or equivalent:

- Bachelor of Computer and Information Sciences or
- Graduate Diploma in Computer and Information Sciences.

An applicant who does not meet the admission requirements above must submit evidence to the dean (or representative) of their ability to study at postgraduate level.

- An applicant will be required to supply references.
  - An applicant may be required to attend a selection interview.
- 

## Selection

### Selection criteria

When the number of eligible applicants for admission exceeds the number of places available, the following selection criteria will be applied:

- a) Professional qualifications that are relevant to the proposed field of study;
- b) Assurance of commitment to undertaking all aspects of the programme and to meeting the learning outcomes;
- c) Recommendation from employers;
- d) Academic and technical aptitude;
- e) Relevant work experience.

### Selection process

Selection will be made by the Programme Committee or by those with authority delegated by the Programme Committee. In some cases, a telephone or face-to-face interview may be required.

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## Requirements for the Award of the Qualification

### The Award

To be awarded the Master of Forensic IT, a candidate shall have successfully completed 240 credits together with the requirements.

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## CAREERS IN FORENSIC IT

There is a growing global demand for skilled forensic IT professionals. Some possible career options are listed below:

- Chief Police Investigator
- Police Undercover Officer
- Forensic Officer Assessment Consultants
- Forensic Laboratory Supervisor

## RELATED CAREERS

- Cyber Security Analyst,
- Cyber Security Officer,
- Technical IT Security Officer,
- Network Security Engineer,
- Digital Forensic Practitioner (Acquisition and Analysis),
- Information Security Analyst,
- Security Consultant,
- Systems Administrator (Security),
- Information Security Officer,
- Penetration Tester,

## PROGRAMME STRUCTURE

## MAJOR IN FORENSIC INFORMATION TECHNOLOGY

A Master of Forensic IT degree student can complete his/her degree in two years, taking full time studies for four semesters.

Digital Forensics majors for M.FIT Degree that enrol part-time will complete their studies more than two years.

<b>MASTER OF FORENSIC IT RECOMMENDED COURSE SEQUENCES</b>						
QUALIFICATION	COURSE CODE	COURSE TITLE	SEMESTER	OFFER	LEVEL	CREDIT
Post Graduate Certificate (Level 8)	1. <b>CMRM 811</b>	Research Methodology	S-1	Cohort ONE	8	15
	2. <b>CMAP 812</b>	Apologetics		Cohort ONE	8	15
	3. <b>CMFIT 813</b>	eDiscovery		Cohort TWO	8	15
	4. <b>CMFIT 814</b>	Tools & Techniques 1		Cohort TWO	8	15
Post Graduate Diploma (Level 8)	5. <b>CMFIT 825</b>	Cyber Criminology	S-2	Cohort ONE	8	15
	6. <b>CMFIT 826</b>	Cyber Investigations		Cohort ONE	8	15
	7. <b>CMFIT 827</b>	Cryptography & Anti Forensics		Cohort TWO	8	15
	8. <b>CMFIT 828</b>	Tools & Techniques 2		Cohort TWO	8	15
	9. <b>CMFIT 829</b>	Network Forensics	S-2	Cohort ONE	9	15
	10. <b>CMCP 8210</b>	Christian Philosophy		Cohort TWO	9	15
Qualification	Course Code	Course Title	Year		Credit	
Master (Level 9)	CMFIT 900	THESIS	One Year		90	

**NB:**

- **Blue Courses: Compulsory courses**
- **Black Courses: Core courses**

## COURSE DESCRIPTION



The following information is correct at the time of printing but is subject to change. Full prescriptions for the courses are available.

## **Postgraduate Certificate (Level 8)**

### **CMFIT 811 Research Methods**

Creates a critical awareness of the diverse range of approaches and methods that are utilised when undertaking research in information technology and enables students to carry out their own research using appropriate methods **in a rigorous** manner.

### **CMFIT 812 Apologetics**

A philosophical study and defence of the Christian faith as it relates to natural science, humanism, reason, and experience. An emphasis is placed on the necessity of Christ's deity, His supernatural Incarnation, His substitutionary death, and His physical resurrection. The intent is to instil an ability to defend the faith from a philosophical and theological view.

### **CMFIT 813 e-Discovery Tools and Techniques**

E-Discovery tools and techniques relate to the management, preservation, discovery and disclosure of digital evidence in organizations. Methodologies and techniques for evidence mining, evidence availability, evidence identification and evidence presentation are critically assessed and the related software applications evaluated for use and performance.

### **CMFIT 814 Tools and Techniques 1**

Evaluates and assesses a range of Commercial forensic tools and techniques used for abstracting low-level detail and engaging in a structured approach to the analysis and presentation of digital evidence. Researches the underlying low level details behind each tool and the ethical aspects related to their application in order to provide the necessary advanced technical understanding required from technical expert witnesses.

## **Postgraduate Diploma (Level 8)**

### **CMFIT 825 Cyber Criminology and Governance**

Develops specialist understanding of the rapidly evolving world of cybercrime. Critically evaluates methods for managing and governing the use of technology in sensitive areas within the context of ethical, organisational, technical and legal frameworks.

### **CMFIT 826 Cyber Investigation**

Evaluates and assesses a range of digital forensic investigation models and techniques used for civil and criminal investigations in the cyberspace and professional practice. Organizing, managing and directing an investigation according to best practice guidelines, International Standards and legal requirements. Researches the underlying risks, registers of volatility and low level details behind each investigatory action to be taken in order to successfully manage an investigation scenario and scene.

### **CMFIT 827 Cryptography & Anti Forensics**

Develops specialist understanding of methods and protocols used to encrypt and decrypt digital information for secure communication as well as their application in computer forensics

### **CMFIT 828 Tools and Techniques 2**

Evaluates and assesses a range of Open Source and Free forensic tools and techniques used for abstracting low-level detail and engaging in a structured approach to the analysis and presentation of

digital evidence. Researches the underlying low level details behind each tool and the ethical aspects related to their application in order to provide the necessary advanced technical understanding required from technical expert witnesses.

## **Master of Forensic IT (Level 9)**

### **CMFIT 829 Network Forensics**

Security issues related to network threats, attacks and security countermeasures are assessed and solutions recommended. Methodologies and techniques for detecting, monitoring and responding to security issues in line with implementation, testing and digital investigation requirements are critically evaluated.

### **CMFIT 8210 Christian Philosophy**

In every area of study, CUP wants to help parents train their children to understand God's perspective and think His thoughts after Him. To do this, they must grow in their knowledge of the Word of God and learn the mind of Christ. They must learn to reason in terms of biblical truth, and develop a truly consistent biblical worldview. By godly instruction and precept, through the inculcation of scriptural wisdom, students are to develop their God-created minds unto Christian maturity. They must be taught how to rightly discern and judge all things in the light of Scripture. Christian education fails if it does not instill the pattern of thinking after God's words and logic. If a student learns to think in terms of himself or the creature, his decisions regarding right and wrong, truth and error, reality and fantasy, will be humanistic or naturalistic. Without realizing it, he will be acting as his own god, determining for himself good and evil (Genesis 3:5). Committed to the Bible as the standard for education, CUP desires to interpret it in line with the historic Christian faith and biblical principles.

#### *Biblical Foundation*

The CUP program is committed to an educational philosophy which is not after the traditions of men, or the principles of this world, but after Christ, in whom are hidden all the treasures of wisdom and knowledge (Colossians 2:8). Christian education means that Christ is central to education. Consequently, our educational theory, methods, and practice must be built upon Christ as their cornerstone. But how can we know Christ apart from His Word which is the truth? The sacred Scriptures are the Word of Christ written. In them God has revealed Himself and His saving purpose in Christ.

Because there is only one God and one Christ, there is only one truth. This truth is the centre and criterion of Christian education. While the Bible is not used as the textbook in every subject, it is the foundational handbook for every course and the standard for teaching. As the foundational book, Scripture is the only infallible rule for faith and practice, for grammar and literature, for mathematics and science, for health and physical education, for geography and history, and for social studies and the arts. The beginning of wisdom is the fear of God.

#### *Biblical Principles*

In order for education to be consistently Christian the teacher must self-consciously teach all subjects in the framework of biblical authority. To accomplish this we must have a methodology that guarantees its biblical character. The proper method is to use the Bible in each and every course both directly and indirectly. It is applied directly when we derive our understanding of each topic from the actual statements of the Bible, and use the text of Scripture appropriately in each subject. It is applied indirectly as we work out the implications of biblical truth as the proper framework for understanding each subject.

Biblical doctrines must regulate the way we teach and learn. One important goal of Christian education is to teach the student to reason biblically. Because of this, the educational process must show how the doctrinal truths of God's Word provide the Christian worldview. This worldview is a unified system of principles that guides the way we educate. It requires that every thought be made captive to the obedience of Jesus Christ (2 Corinthians 10:5).

### **CMFIT 900 Thesis 90 credits**

Demonstrates a capacity for independent research, conducted under supervision, and an ability to critique prior work and define, design and conduct research in a rigorous and robust manner, and to deliver a substantial piece of original high-quality work which significantly enhances aspects of the body of knowledge in the chosen research domain.

## Doctor of Philosophy (Level 10)

**Course Code: CDPPhil 1000      360 credits**

**Course Title: Thesis**

Demonstrates a capacity for independent research, conducted under supervision, and an ability to critique prior work and define, design and conduct research in a rigorous and robust manner, and to deliver a substantial piece of original high-quality work which significantly enhances aspects of the body of knowledge in the chosen research domain.

## PREREQUISITES

Prerequisites may be waived by the Programme Committee for candidates who have acquired the requisite knowledge through work experience or formal study in another programme.

## CREDIT RECOGNITION

### Transfers from Postgraduate Diploma in Forensic IT

- a) Graduates of the Postgraduate Diploma in Computing may apply (as required) to the CUP Programme Committee for a transfer of credit of up to a maximum of 120 credits towards the Master of Forensic IT (M.FIT) provided that the period between completing the award of the postgraduate diploma and applying for admission to the master's programme does not exceed three years.
- b) Candidates who have not completed CMRM 811 - Research Methodology as part of the postgraduate diploma shall be required to complete this course, in addition to the thesis to be awarded the Master of Forensic IT.
- c) For postgraduate diploma graduates who are subsequently awarded the degree, CUP's academic record shall show only the qualification of the Master of Forensic IT, and the award of the postgraduate diploma shall be revoked.

## COMMENCEMENT

These regulations will be enforcing in Semester 1, 2023

## GENERAL INFORMATION

CUP University is a private, co-educational institution with a Christian philosophy of education. CUP University's purpose is to provide students with a rigorous, challenging education that is firmly based in the Bible and inspires commitment to Christian service.

When you are a student at CUP University you can expect to enjoy several advantages:

- **A Supportive Learning Environment:** CUP University's Forensic IT Division appreciates the opportunity to develop personal relationships with students who desire to build on the spiritual foundation that our learning environment provides. Faculty members are committed to help each student grow as a whole person.
- **Small Class Sizes:** Our average class size of 10 students or less encourages interaction between students and faculty as well as among students. You'll enjoy a high degree of personal attention that may not be possible in larger school settings.
- **Highly Qualified Faculty:** Our faculty members are trained professionals with expertise in their academic fields. Focused on serving the Lord and their teaching, many have made CUP University their home.

### Academic Regulations & Policies

In accordance with our motto: "Mo'ui 'ia Kalaisi" and for the overall wellbeing of the campus, the Administration and faculty desire to maintain a high standard of moral conduct from the students. The policies given aim at maintaining a clean God-honouring student body where students have a high respect for God and His Word (the Bible), as well as for their Administrators, Lecturers and fellow students. Within this Christian atmosphere, the student will be encouraged to grow spiritually, mature in the Lord, develop personal responsibility, select the right kind of true friends, excel academically and prepare for Christian leadership. With these goals in mind, we have the following school regulations:

CUP University reserves the right to modify existing academic policies or to develop additional policies regarding the relationship between the institution and those who enrol in its programs. This includes tuition and fee schedules, enrolment procedures and requirements, program and course offerings, graduation requirements, and registration policies and procedures.

Those admitted to study at CUP University agree, by virtue of their enrolment, to be governed by such policies as are established by the university's Board of Governor and administration. As a result, the university maintains disciplinary authority over students as it pertains to continuation of enrolment by students, their award of academic credit, and the conferring upon them of degrees and certificates.

## **Orientation of New Students:**

All new CUP University students are encouraged to attend orientation the week before classes start. During the orientation essential activities include academic advising, financial aid counselling, and registration.

## **Pre-Registration for Continuing Students**

Semester 1 pre-registration for all current students is normally held in the last 2 weeks of semester 2, and Semester 2 pre-registration is held in the last 2 weeks of Semester 1 of the same year. All students expecting to return for the next semester must meet with their major advisor before preregistering for the following semester's course work. It is the student's responsibility to be familiar with departmental requirements before preregistration.

## **Course Numbering**

The letter abbreviation preceding a course number indicates the University's first initial letter (C) and the school of instruction or the general subject area of study.

For example: CMTh = Theology; CMEd = Education; CMGB = Business Administration; CMFIT = Forensic IT; CMCS = Cyber Security

The three-number subject generally indicates the course level of study, semester 1 or 2, and the sequence of the courses respectively.

## **Registration, Add/Drop**

New students must register for classes prior to the first week of each semester. There is an "add/drop" period at the beginning of each semester. Admittance to a new course, however, is based upon available seating. Students must secure the faculty member's signature to add/drop courses. Courses dropped during the add/drop period will not appear on the student's permanent record. Alteration of a schedule without the approval of the Office of Records and Registration will not be recognised by the university. No student may enter a class or laboratory after the first meeting following the end of the add/drop period

## **Course Withdrawal**

Students may withdraw from a course after the add/drop period is over. They must complete forms available through the Office of Admissions and Records.

Students must secure the course instructor and the Academic Advisor's signatures before withdrawing from a course. Completed withdrawal forms must be delivered to the main campus Office of Records & Registration no later than the last day designated to withdraw from classes. A grade of "W" will be recorded on the student's permanent record. Students who neglect to follow this procedure will receive grades of "F" on their permanent record.

### **Total Withdrawal from the University**

Students who cannot continue their studies during a given semester must officially withdraw from the university. Withdrawals from school forms are available through the university's main administration office or the Office of Records & Registration. Students should confer with their instructors and/or advisors, complete the withdrawal from school form and obtain clearance from the library, the financial aid and business offices. Students who neglect to follow this procedure will receive grades of "F" on their permanent record.

### **Progress Toward a Degree or a Certificate**

The time needed to complete the requirements for a degree or a certificate may vary, depending upon the student and his/her personal and academic circumstances. Many students choose to carry less than a full load for an academic semester. This may extend the time need to complete the academic programme. CUP University encourages students to work toward a degree or certificate at a pace that suits their circumstances.

### **Course Cancellation**

The university reserves the right to cancel a course due to low enrolment, to change class times or class instructors, cancel classes or create new classes, or any Emergency Declaration by Government for schools to be cancelled/closed due to Covid 19 or any other emergency and to alter any other policies or dates related to registration and student records at any time. Notification of such changes will be published in an appropriate manner.

### **Grade Change**

When a student disagrees with the final grade of the course, that student may petition the University's Academic Committee for a review of their course grades. Grade change petitions will be allowed for up to one semester after the original grade was released.

### **Attendance & Tardiness**

Students will be informed in writing of the instructor's attendance and tardiness requirements at the start of classes and will be required to adhere to those guidelines. Students are required not to miss more than 20% of the scheduled classes for the semester. Excused absences due to extenuating circumstances are left to the discretion of the instructor. Students are required to report to all classes on time.

### **Academic Integrity**

Academic honesty is expected of all students. Each instructor will inform students in the beginning of each semester the academic integrity expectations and the consequences for violating of this standard.

In the event an instructor determines and substantiates a violation of academic integrity occurred such as plagiarism or cheating, the instructor may take appropriate disciplinary action reflected in the student handbook. This action can include a lowered or failing grade, probation, dismissal or other institution actions. Detailed explanations of possible consequences are outlined in the Student Handbook.

Plagiarism, as an example of a violation of Academic Integrity, is a form of theft. It is the stealing of another's ideas, information or words and passing it off as one's own. Examples of plagiarism include quoting from a published work without the use of quotation marks and identification of the author and copying from another student's examination or report. Instructors and Academic Advisors can answer any questions about plagiarism and strategies to avoid it. Students who know accomplice in the act of plagiarism are equally guilty of academic dishonesty.

### **Cross Registration**

(Transferring Credit from another Institution)

Students who expect to enrol in a course at another institution while still planning to complete their degree at CUP University and who would like to insure the transferability of the course are encouraged to complete the Prior-Approval form, which is available through the main administration Office of Records & Registration. All courses for which prior approval is obtained are subjected to the standards and conditions of the CUP University Transfer Credit policy. All transfer students will have to attend CUP University at least a 2 semesters credits in order to gain a degree, etc.

## GRADING SYSTEM

### CHRIST'S UNIVERSITY in PACIFIC CURRICULUM AND ASSESSMENT AUTHORITY (CUPCAA)

CUPCAA issues the official statements of results to students. It is a cumulative record of all results for the student. Christ's University in Pacific is undertaking the 15.0 grading system for all students. Results for units transferred to and attained from CUP studies are reported and follow the following grading system.

Numerical Score	Letter Grade	Grade Points	Achievement Level
90 – 100	A <sup>+</sup>	15.0	Excellent
85 – 89	A	14.0	Outstanding
80 – 84	A <sup>-</sup>		
75 – 79	B <sup>+</sup>	11.0	Satisfactory
70 – 74	B		
65 – 69	B <sup>-</sup>		
60 – 64	C <sup>+</sup>	9.0	Passed
55 – 59	C	7.5	
50 – 54	C <sup>-</sup>		
40 – 49	D	5.0	Failing
Below 40%	F	0.0	Failing

Other grades that may be awarded to a candidate apart from those above, are as follows:

CT	Credit Transfer awarded following the assessment of previous learning. (Earned Points to be awarded by the head of the Department of Mathematics)
Res. Pass	Restricted pass which does not permit a Candidate to proceed to a further stage in that subject's Course of Study.
Aeg. Pass	Aegrotat consideration in respect of illness or injury.
Comp. Pass	Compassionate Pass in consideration for unavoidable circumstances.
DNS	Did not sit the final exam (Final grade is F with Earned Points of Zero.)
WC	Withdrawal from Course before the deadline.
W	Withdraw from the University
I	Incomplete

The following grades shall not be included in the calculation of the GPA. They are Aeg. Pass, Comp. Pass, P, Q and W.



## SCHOOL OF COMPUTER SCIENCE: FACULTY OF FORENSIC IT DIVISION

### Dean for School of Computer Science: Professor Pavel Kromer

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- Ing (M,Sc), Computer Science, VSB-TU Ostrava, Czech Republic
- Ph.D., Computer Science and Applied Mathematics, VSB-TU Ostrava, Czech Republic
- Associate Professor, Computer Science, VSB-TU Ostrava, Czech Republic

### Head of School - Computer Science: Dr. Paula Palavilala Latapu

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- BSc (Computing Science and Information System) USP, Fiji
- Diploma in Computer Science (TIHE)
- PG.Dip.FIT (Postgraduate Diploma in Forensic IT) CUP, Nuk., Tonga
- MFIT Hons., (Master of Forensic Information Technology with Second Class Honours) CUP, Nuk., Tonga
- (Doctoral candidate) CUP, Nuk., Tonga

### Senior Lecturer: Dr. Siaosi Maeakafa (Research Project Manager)

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- PG.Dip.FIT (Postgraduate Diploma in Forensic IT) CUP, Nuk., Tonga
- MFIT Hons. (Master of Forensic Information Technology with First Class Honours) CUP, Tonga
- Ph.D. (Thesis: Governance, Management and Control of Security Risk: A Socio-Technical System Design) CUP, Nuk., Tonga

### Lecturer: Mr Viliami Fe'aomoeata (CUP Administrator in USA)

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- B.A (Communication) Patten University, Ca., USA
- PG.Dip.FIT (Postgraduate Diploma in Forensic IT) CUP, Nuk., Tonga
- MFIT Hons. (Master of Forensic Information Technology with Honours) CUP, Tonga

### Visiting Lecturer: Professor Vimal Kumar

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- Head of the Waikato University Cyber Security Lab ([CROW](#)) and a member of the Institute for Security and Crime Science.
- Research interests are broadly in the areas of Cybersecurity, Wireless sensors networks and Internet of Things.
- Current research projects and publications can be found on the research page.

### Visiting Lecturer: Dr. Jeffrey Garae

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- B.Sc., Comp.Sci. & Information Systems, USP, Suva, Fiji
- PG.Dip., Comp. Science, Waikato University, Hamilton, NZ
- M.CS., Cyber Security, Waikato Uni., Hamilton, NZ
- Ph.D., Cyber Security, Waikato Uni., Hamilton, NZ