



Royal Science &
Technology Park



ADVANCED SCHOOL OF INFORMATION TECHNOLOGY

IMAGINE INSPIRE INNOVATE

GET THE ADVANTAGE OF FIVE
WORLD-CLASS CAREER COURSES

www.rstp.org.sz



Royal Science &
Technology Park

CONTACT INFO:
Royal Science and Technology Park
ADVANCED SCHOOL OF INFORMATION TECHNOLOGY
Innovation Park, Phocweni, P.O. Box 2316,
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Royal Science &
Technology Park

ABOUT ROYAL SCIENCE AND TECHNOLOGY PARK

The Royal Science and Technology Park (RSTP) emphasises on research and development to support business enterprises. It focuses on giving the necessary foundation to thrive in this knowledge economy by building infrastructure that facilitates the development of science, technology and innovation. Moreover, RSTP supports new inventions as well as extends a helping hand in the process of patenting.

The function of RSTP is to provide a base for research and facilitate the progress of knowledge-based businesses through new-age architecture and technology.



ADVANCED SCHOOL OF
INFORMATION TECHNOLOGY

ABOUT ADVANCED SCHOOL OF INFORMATION TECHNOLOGY

The Advanced School of IT (ASIT) is a business unit under Royal Science & Technology Park (RSTP) located in the Innovation Park at Phocweni.

Registered under the Swaziland Higher Education Council (SHEC)

ASIT aims to provide world class ICT training, nurturing entrepreneurship through innovation and research with the Swazi society capacitated in; Software Development, Multimedia, Cyber Security & Forensics and Hardware & Networking.



ADVANCED SCHOOL OF
INFORMATION TECHNOLOGY



A PARTNERSHIP THAT PROMOTES ADVANCED LEARNING

Aptech is recognised around the world as a reliable learning solutions company. The brand has built a reputation of being the most sought-after education and training partner for individuals and businesses alike, with a presence in more than 40 countries and over 1300 learning centres.

This premier education and training institute is regarded around the world as a pioneer in I.T. software & hardware training. They command a large faculty of experts who have trained more than 6.8 million students over 40 countries.

Aptech's international education operations focus on being the most preferred alternative to University I.T. education. It does so by providing industry-relevant and structured courses for students. Moreover, they also offer customised training solutions and learning content to schools, colleges, universities, governments and businesses.

BENEFIT:

Aptech has educational partners with international universities like Middlesex University, University of Portsmouth, Plymouth University and Eastern Mediterranean University where Aptech graduates may advance their studies.

COURSE HIGHLIGHTS:

- Assignment-based learning
- Leads to Global Certification
- Certified Faculty
- On-Track & Quality Training
- Industry Relevant Skills / Industry relevant curriculum
- Intensive practice and assessment laboratory workshops
- Designed for better employability
- E-Project guidance and evaluation by technology experts



ADVANCED SCHOOL OF
INFORMATION TECHNOLOGY

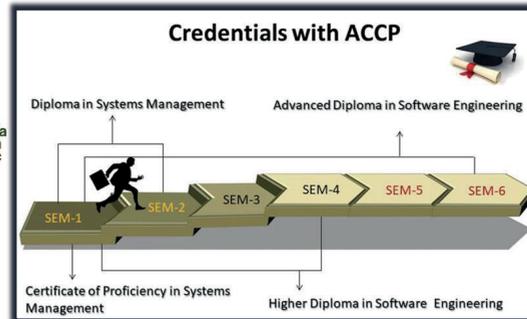
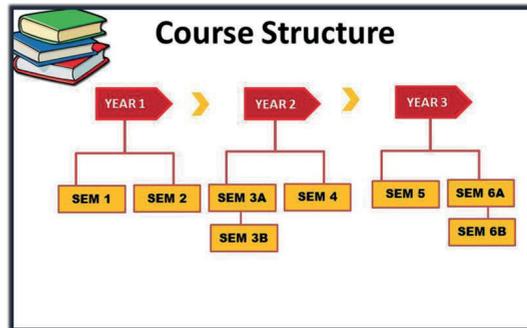
Aptech Certified Computer Professional (ACCP)

ACCP is a career program designed to make you an industry-ready professional, and prepare you for in-demand technologies & future IT trends.

ACCP is a complete career oriented program to make the student job ready for today's I.T. Industry. The course has a ladder approach for the better understanding of the students. The course gives a strong foundation to the student on various concepts related to Software development and Global Technology Insights. Course also helps students to develop interpersonal, communication, team building skills and leadership skills. The students get hands on training as they have to perform project assignment to them.

ENTRY REQUIREMENTS

- Minimum high school graduates.
- Minimum of 4 credits
- At least Pass in English
- Credit in Mathematics
- Any other two credits



Semester 1

Module	Duration (Instructional Hours)
Logic Building and Elementary Programming	40
Building Next Generation Websites	48
Designing and Publishing Websites	24
Database Management	40
eProject (Website Development)	24
Total	172

 Website Designer

Semester 2

Module	Duration (Instructional Hours)
Markup Language	16
Application Development Fundamentals-I	40
Application Development Fundamentals-II	40
Application Programming	40
Introduction to Cloud Computing	4
Project (Java)	32
Total	172

 • Java Programmer
• C# Programmer

Semester 3A (Java)

Module	Duration (Instructional Hours)
Advanced Application Development -I	24
Advanced Application Development -II	16
Introduction to Web and Enterprise Applications	40
Web Component Development	40
Architecting Applications for the Web	16
eProject (J2EE)	32
Total	168

Semester 3B (.Net)

Module	Duration (Instructional Hours)
Windows Store Apps Development - I	24
Windows Store Apps Development - II	24
Advanced Windows Store Apps Development - I	24
Advanced Windows Store Apps Development - II	24
eProject (.NET)	32
Total	128

Semester 4

Module	Duration (Instructional Hours)
Object Oriented Analysis and Design	32
Fundamentals of Open Source Operating System	24
Working with Open Source Web Server	32
Managing Data using Open Source Databases	16
Open Source Web Application Development	40
Project (Open Source Technologies)	24
Total	168

Java Track:
 • Java Web Application Developer
 • Open Source Developer
 • PHP Developer

NET Track:
 • .NET Windows Store Apps Developer
 • Open Source Developer
 • PHP Developer

Semester 5

Module	Duration (Instructional Hours)
Software Engineering Principles	24
Software Project Management	32
Software Quality Assurance, Verification, Validation and Testing	24
Working with Cloud Computing	12
Securing Web Applications	16
Total	108

Semester 6A (Java)

Module	Duration (Instructional Hours)
Processing Applications using Markup Language	16
Enterprise Application Development	40
Creating Services for the Web	16
Rich Internet Application Development	16
Developing Applications for Wireless Devices	40
eProject (J2EE)	40
Total	168

 Java EE Application Engineer

Semester 6B (.Net)

Module	Duration (Instructional Hours)
Web Application Development	48
Enterprise Application Programming	48
Rich Internet Application Development	16
Developing Mobile Applications	24
eProject (.NET)	40
Total	176

 .NET Apps Engineer

Arena Animation International Program

The Arena Animation International Program (AAIP) is targeted to train students in the latest industry relevant courses and latest technical educational tools. Arena's intensive course curriculum and experiential training is designed to give every student the competitive edge in the world of animation. Arena Multimedia offers students programs and specializations which empower you to make a great career in this new age industry.

The objective of this program is to produce full fledged animation and game design professionals who are completely at ease with their skills and can confidently create a rewarding career for themselves. Throughout the course, the students are contributing to develop their own full fledged portfolio. Through project-based works in conjunction with theoretical and practical experience, students will explore different ways to put ideas into practice while developing their portfolios. Course also helps students to communicate effectively, improve time management, presentation skills, problem solving strategies via soft skills.

Semester	Direct Entry	Exit	Exam	Certifications
SEM 1	NA	A	Yes	Certificate in Multimedia
SEM 2	NA	A	Yes	Diploma in Multimedia and Animation
SEM 3	NA	NA	Yes	NA
SEM 4	NA	A	Yes	Advanced Diploma in Multimedia and Animation

ENTRY REQUIREMENTS

Minimum high school graduates.

Minimum of 4 credits

At least Pass in English

Pass in Mathematics

Any other two credits



Modules	Tools	Total Duration
Design and Visualization Fundamentals		16
Graphics & Illustration Fundamentals		16
Typography Techniques		16
Creative Illustrations	Adobe Illustrator CS6	20
Creating Artworks	CorelDRAW X6	20
Image Magic	Adobe Photoshop Extended CS6	40
Design for Print and Advertising		12
Media Publishing	Adobe InDesign CS6	28
Print Portfolio		16
Total		184 hours

SEMESTER-1

Exit Profile

Graphic Designer
Layout Designer
Illustrator
Visualizer

SEMESTER-2

Exit Profile

Audio-Video Editor
Flash Animator
Storyboard Artist

Modules	Tools	Total Duration
Anatomy Study		16
Concepts of 2D Animation		22
Storyboarding for Animation		36
Working with Audio	Adobe Audition CS6	16
Video Streaming and Editing	Adobe Premier Pro CS6	28
2D Digital Animation	Adobe Flash Professional CS6	44
Basic Scripting and Interactivity	Action Script 3.0	16
2D Animation Portfolio		24
Total		202 hours

Modules	Tools	Total Duration
Clay Motion - A Stop Motion Animation techniques	Stop Motion Pro	32
3D Basics - Modeling to Animation		32
Modeling with 3D		36
Lights, Camera and Materials	3ds Max 2015	32
3D Motion Graphics and Fx		24
Rendering with V-Ray	3ds Max 2015 with V-Ray	12
Digital Fx	Adobe After Effects Professional CS6	24
3D Animation Portfolio		24
Total		216 hours

SEMESTER-3

Exit Profile

Clay Modeler
3D Modeler
Motion Graphics
Renderer
Compositor

Modules	Tools	Total Duration
3D Modeling		24
Texturing, Lighting & Rendering	Autodesk Maya 2015	48
Paint Effects – Visor		20
Crowd Simulation	Golaem Crowd	24
Pixar Renderman	Pixar Renderman	36
3D Projection Mapping	Autodesk MAYA 2015 & 3ds Max 2015	48
3D for Augmented Reality	3ds Max 2015	36
Portfolio Demo Reel		26
Total		262 hours

SEMESTER-4

Exit Profile

3d Modeler
Texture Artist
Light Artist
Concept Artist
Visualiser
3d Artist
Motion graphics designer
Interactive designer



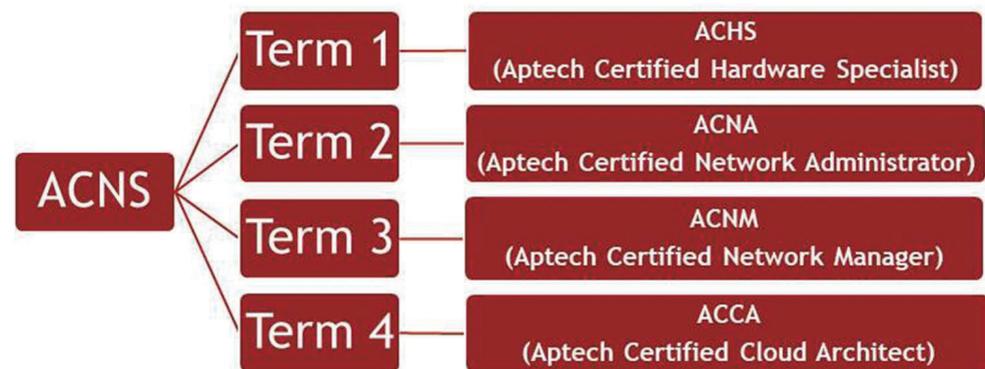
Aptech Certified Network Specialist

Aptech Certified Network Specialist course introduces you to the fundamentals of computing & networking systems. Get professional training in troubleshooting, testing, configuring, and monitoring private cloud systems & firewalls.

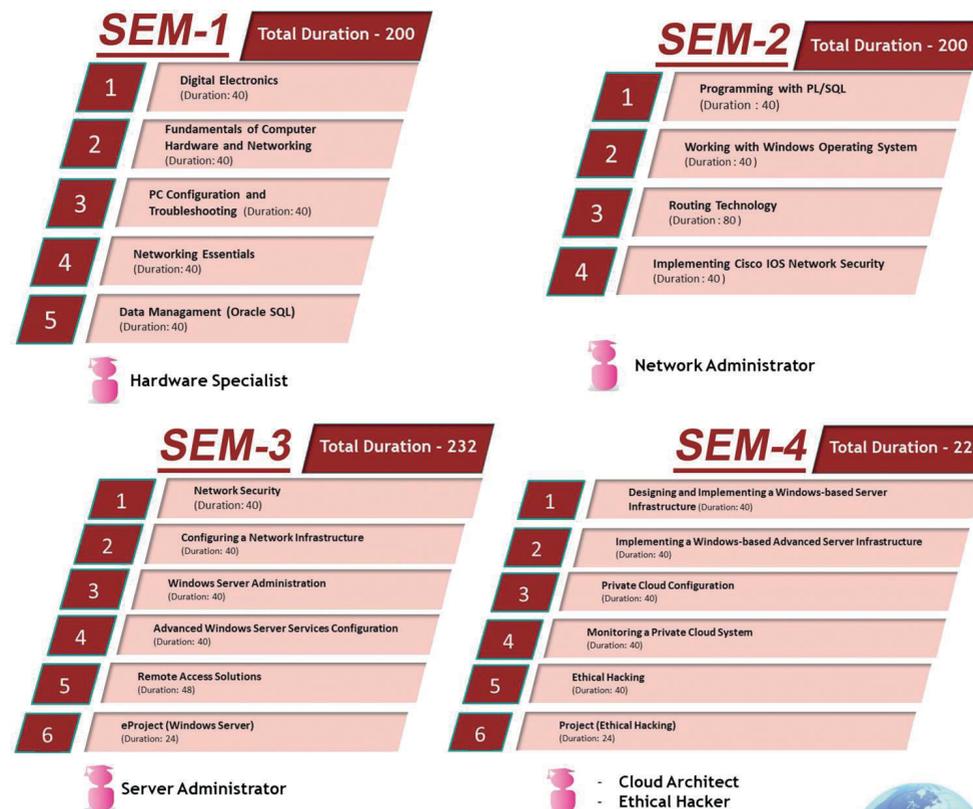
ACNS is a career program created to produce job-ready professionals in the field of hardware and networking. It provides training in the fundamentals and techniques of subjects ranging from digital electronics to network security.

Salient Features:

- Industry relevant curriculum
- Latest technology platforms from Microsoft, Cisco, and CompTIA
- Opportunities for Vendor Certifications
- Intensive Practice and Assessment Laboratory workshops
- Designed for better Employability
- E-Project Guidance and Evaluation by Technology Experts
- Opportunities to become Server Administrator



Aptech Certified Network Specialist



ENTRY REQUIREMENTS

- Minimum high school graduates.
- Minimum of 4 credits
- At least Pass in English
- Pass in Mathematics
- Any other two credits



Information Security and Ethical Hacking

The APTECH Information Security and Ethical Hacking programme is designed to train students in the emerging area of Information Security. With cyber-attacks and cybercrime on the increase, it is estimated that the industry of Information Security is currently growing at a rate of 21%. This has created a huge demand for trained professionals in the industry. The course will provide the student with the strong theoretical and practical background required to be an expert in this thriving and exciting industry.

Ethical hacking is also known as penetration testing or intrusion. It is used to find loopholes in an IT system. The course gives broad knowledge about information security and Ethical hacking. The course is specially designed and is a complete course as it starts from the basics and later covers all related concepts. The course enables the candidate to work on latest platforms like Windows 8, Windows Server 2012, Linux, etc..

EXIT PROFILE

3rd YEAR

2nd YEAR

1st YEAR

1. Network Technician
2. Security Administrator

1. System Administrator
2. Security Administrator
3. Security Specialist

1. Ethical Hacker
2. Security Analyst



Information Security and Ethical Hacking

Module	Duration (Instructional Hours)	Practice Sessions (Hours)
Logic Building and Elementary Programming	32	8
Basics of HTML5 and Java Scripting	16	4
Network Technologies Part I	24	8
Operation Security	32	8
Total	104	28

Module	Duration (Instructional Hours)	Practice Sessions (Hours)
Configuring a Network Infrastructure	26	4
Linux System Administration	32	8
Mobile Computing & Cloud Computing	24	6
Windows Server Administration and Services	32	8
Total	114	26

Module	Duration (Instructional Hours)	Practice Sessions (Hours)
Programing with Python & HTML5 Security	32	8
Software Development Security	24	-
Security Architecture & Hacking	32	8
Handheld devices Security	16	-
Cloud Security	20	-
Total	124	16

Module	Duration (Instructional Hours)	Practice Sessions (Hours)
Network Technologies Part II	24	8
Information Security & Organizational Structure	32	8
Introduction to Ethical Hacking	16	4
Social Engineering and User Awareness	16	4
Risk Management	16	4
Project	24	-
Total	128	28

Module	Duration (Instructional Hours)	Practice Sessions (Hours)
WAN Security & Wireless Technology	32	8
Database Management (Database Security and Development)	26	4
Cryptography	12	-
Security Models and Evaluation Criteria	40	-
Project	24	-
Total	134	12

Module	Duration (Instructional Hours)	Practice Sessions (Hours)
Advanced Ethical Hacking	36	12
BCP/DR (Business Continuity & Disaster Management)	32	8
Windows/Unix/Linux Hacking & Computer Forensics	48	12
Project	24	-
Total	140	32

ENTRY REQUIREMENTS

Minimum high school graduates.
Minimum of 4 credits
At least Pass in English
Credit in Mathematics
Any other two credits

Semester	Certificate Name
Sem 1	Certificate in Network Technologies (CNT)
Sem 2	Diploma in Information Security (DIS)
Sem 3	No Exit
Sem 4	Higher Diploma in Information Security (HDIS)
Sem 5	No Exit
Sem 6	Advanced Diploma in Information Security & Ethical Hacking (ADIE)

Cyber Security & Network Forensics

Cyber Forensics is the application of investigation and analysis techniques to gather and preserve evidence from a particular computing device in a way that is suitable for presentation in a court of law (Noblett 2000). This enables the evidence to be admissible in Court because it can be reproduced and still give same results.

With the rise in cyber crime it is therefore imperative that the armed forces be capacitated in cyber forensics in order to effect arrests and get maximum convictions on cyber related crimes.

ENTRY REQUIREMENTS

Minimum high school graduates.

Minimum of 4 credits

At least Pass in English

Credit in Mathematics

Any other two credits

The Advanced School of Information Technology offers this course aims at introducing students to Programming, Web-level security and basic networks and Operation security.



Cyber Security & Network Forensics

Cyber Forensics						
Year	Semester	Module	Duration (Instructional Hours)	Software Versions	Exit Profile	
1	Semester 1	Logic Building and Elementary Programming	40	Turbo C++	Security Administrator	
		Basics of HTML5 and Java Scripting	20	Free CoffeeCup HTML Editor, HTML5 supported browsers		
		Network Technologies	32	Windows XP, GNS3(Free Simulator), Packet Tracer v5, GNS3(Firewall)		
		Information Security & Organizational Structure	40	NA		
		Introduction to Ethical Hacking	20	Nmap, Backtrack v5(Collection of VA/PT Tools), Nessus(Demo - Network VA tool), Metasploit(Network VA/PT tool), Wireshark(Traffic Analyzer), Cain & Abel(Password Cracker), Zed Attack Proxy (ZAP), SATAN(Network Analyzer), Retina(Network Penetration Testing tool), John The Ripper(Password Cracker)		
	Total Hours - Semester 1		152			
	Semester 2	Configuring a Network Infrastructure	30	Windows Server 2012	Security Specialist	
		Linux System Administration	40	Red Hat Enterprise Linux 7		
		WAN Security & Wireless Technology	40	Windows Server 2012, Kismet, Airdrop		
		Programming with Python & HTML5 Security Project	24	Python		
Total Hours - Semester 2		174				
Total Hours (Semester 1 + Semester 2)			326			
2	Semester 3	Security Architecture & Hacking	40	Nmap, Backtrack v5(Collection of VA/PT Tools), Nessus(Demo - Network VA tool), Metasploit(Network VA/PT tool), Nikto(Web - VA/PT), Wireshark(Traffic Analyzer), Cain & Abel(Password Cracker), Zed Attack Proxy (ZAP),Sqlmap, Social Engineer Toolkit(SIT), Ettercap, Aircrack-ng(Wireless), SAIAN(Network Analyzer), Retina(Network Penetration Testing tool), John The Ripper(Password Cracker),Acunetix (Web - Security Testing Tool), Burp Proxy(Free version)	Ethical Hacker	
		Advanced Ethical Hacking	48			
		BCP/DR	40			
		Windows/Unix/Linux Hacking	40			
		Introduction to Computer Forensics	20			
		Introduction to Cyber Crime Investigation	20			
	Project		24			
	Total Hours - Semester 3		232			
	Semester 4	Digital Evidence & Computer Forensic Investigation Process	40	FTK Imager, Encase imager, Helix (or Backtrack) live CD, OSF, dc3dd, Sleuth Kit, Autopsy, WinHex, ProDiscover, DumpIt, Volatility, Bulk Extractor, Digital Forensic Framework, Sysinternals Suite, Xplico, XPDF, JEXIF Viewer, MailXaminer, Registry decoder, Mandiant Redline, KALI Linux (newer version of backtrack) and Helix	Forensics Investigator Cyber Crime Investigator	
		Operating System Forensics (Windows, Linux, MAC)	40			
Data Acquisition-Duplication and Recovery Forensic Investigation		20				
Steganography & Image File Forensics		20				
Investigating Wireless Attacks		30				
Social Media Forensic	20					
Investigating Corporate Frauds	20					
Total Hours - Semester 4		210				
Total Hours (Semester 3 + Semester 4)			442			
Grand Total (Sem 1+2+3+4)			768			



FEE STRUCTURE

IMPORTANT NOTE

Each application form submitted should be accompanied by E250 application fee.

BANKING DETAILS

Name of Account:	RS&TP -Advanced School of IT
Bank Name :	Standard Bank
Call Account :	911 000 199 2786
Branch Code :	66-31-64
Swift Code :	SBICSZMX
Reference :	Name of Student



**INFORMATION SECURITY AND ETHICAL HACKING
3 YEAR ADVANCED DIPLOMA**

YEAR 1

PAYMENT OPTION 1

CASH

Registration	E500.00
Balance	E23,480.00

TOTAL E33,980.00

PAYMENT OPTION 2

6 MONTHS INSTALLMENTS

Registration	E500.00
Deposit	E10,000.00
1st Installment	E3,913.33
2nd Installment	E3,913.33
3rd Installment	E3,913.33
4th Installment	E3,913.33
5th Installment	E3,913.33
6th Installment	E3,913.33

TOTAL E33,980.00

YEAR 2

PAYMENT OPTION 1

CASH

Registration	E500.00
Balance	E33,480.00

TOTAL E33,980.00

PAYMENT OPTION 2

6 MONTHS INSTALLMENTS

Registration	E500.00
1st Installment	E5,580.00
2nd Installment	E5,580.00
3rd Installment	E5,580.00
4th Installment	E5,580.00
5th Installment	E5,580.00
6th Installment	E5,580.00

TOTAL E33,980.00

YEAR 3

PAYMENT OPTION 1

CASH

Registration	E500.00
Balance	E33,480.00

TOTAL E33,980.00

PAYMENT OPTION 2

6 MONTHS INSTALLMENTS

Registration	E500.00
1st Installment	E5,580.00
2nd Installment	E5,580.00
3rd Installment	E5,580.00
4th Installment	E5,580.00
5th Installment	E5,580.00
6th Installment	E5,580.00

TOTAL E33,980.00

**APTECH CERTIFIED COMPUTER PROFESSIONAL
3 YEAR ADVANCED DIPLOMA**

YEAR 1

PAYMENT OPTION 1

CASH

Registration	E500.00
Balance	E23,480.00

TOTAL E33,980.00

PAYMENT OPTION 2

6 MONTHS INSTALLMENTS

Registration	E500.00
Deposit	E10,000.00
1st Installment	E3,913.33
2nd Installment	E3,913.33
3rd Installment	E3,913.33
4th Installment	E3,913.33
5th Installment	E3,913.33
6th Installment	E3,913.33

TOTAL E33,980.00

YEAR 2

PAYMENT OPTION 1

CASH

Registration	E500.00
Balance	E33,480.00

TOTAL E33,980.00

PAYMENT OPTION 2

6 MONTHS INSTALLMENTS

Registration	E500.00
1st Installment	E5,580.00
2nd Installment	E5,580.00
3rd Installment	E5,580.00
4th Installment	E5,580.00
5th Installment	E5,580.00
6th Installment	E5,580.00

TOTAL E33,980.00

YEAR 3

PAYMENT OPTION 1

CASH

Registration	E500.00
Balance	E33,480.00

TOTAL E33,980.00

PAYMENT OPTION 2

6 MONTHS INSTALLMENTS

Registration	E500.00
1st Installment	E5,580.00
2nd Installment	E5,580.00
3rd Installment	E5,580.00
4th Installment	E5,580.00
5th Installment	E5,580.00
6th Installment	E5,580.00

TOTAL E33,980.00



**APTECH CERTIFIED NETWORK SPECIALIST
2 YEAR ADVANCED DIPLOMA**

YEAR 1

PAYMENT OPTION 1

CASH

Registration	E500.00
Balance	E29,540.00

TOTAL E40,040.00

PAYMENT OPTION 2

6 MONTHS INSTALLMENTS

Registration	E500.00
Deposit	E10,000.00
1st Installment	E4,923.33
2nd Installment	E4,923.33
3rd Installment	E4,923.33
4th Installment	E4,923.33
5th Installment	E4,923.33
6th Installment	E4,923.33

TOTAL E40,040.00

YEAR 2

PAYMENT OPTION 1

CASH

Registration	E500.00
Balance	E39,540.00

TOTAL E40,040.00

PAYMENT OPTION 2

6 MONTHS INSTALLMENTS

Registration	E500.00
1st Installment	E6,590.00
2nd Installment	E6,590.00
3rd Installment	E6,590.00
4th Installment	E6,590.00
5th Installment	E6,590.00
6th Installment	E6,590.00

TOTAL E40,040.00

**ARENA ANIMATION INTERNATIONAL
2 YEAR ADVANCED DIPLOMA**

YEAR 1

PAYMENT OPTION 1

CASH

Registration	E500.00
Balance	E29,540.00

TOTAL E40,040.00

PAYMENT OPTION 2

6 MONTHS INSTALLMENTS

Registration	E500.00
Deposit	E10,000.00
1st Installment	E4,923.33
2nd Installment	E4,923.33
3rd Installment	E4,923.33
4th Installment	E4,923.33
5th Installment	E4,923.33
6th Installment	E4,923.33

TOTAL E40,040.00

YEAR 2

PAYMENT OPTION 1

CASH

Registration	E500.00
Balance	E39,540.00

TOTAL E40,040.00

PAYMENT OPTION 2

6 MONTHS INSTALLMENTS

Registration	E500.00
1st Installment	E6,590.00
2nd Installment	E6,590.00
3rd Installment	E6,590.00
4th Installment	E6,590.00
5th Installment	E6,590.00
6th Installment	E6,590.00

TOTAL E40,040.00



**CYBER FORENSICS
2 YEAR ADVANCED DIPLOMA
YEAR 1**

PAYMENT OPTION 1

CASH

Registration	E500.00
Balance	E34,540.00

TOTAL E45,040.00

PAYMENT OPTION 2

6 MONTHS INSTALLMENTS

Registration	E500.00
Deposit	E10,000.00
1st Installment	E5,756.67
2nd Installment	E5,756.67
3rd Installment	E5,756.67
4th Installment	E5,756.67
5th Installment	E5,756.67
6th Installment	E5,756.67

TOTAL E45,040.00

YEAR 2

PAYMENT OPTION 1

CASH

Registration	E500.00
Balance	E44,540.00

TOTAL E45,040.00

PAYMENT OPTION 2

6 MONTHS INSTALLMENTS

Registration	E500.00
1st Installment	E7,423.33
2nd Installment	E7,423.33
3rd Installment	E7,423.33
4th Installment	E7,423.33
5th Installment	E7,423.34
6th Installment	E7,423.34

TOTAL E45,040.00





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