

DEVICE SPECIFICATIONS LIST 2026



CTU
training solutions

Private
Tertiary
Education

www.ctutrainig.ac.za

V1

TABLE OF CONTENTS

**CLICK ON THE HEADING TO GO TO EACH PAGE*

BRING YOUR OWN DEVICE	3
DISTANCE LEARNING	3
LEARNING RESOURCES	4
COMPUTER (DESKTOP & LAPTOP) REQUIREMENTS	5
SOFTWARE REQUIREMENTS	7
ANDROID MINIMUM SPECIFICATIONS	9

BRING YOUR OWN DEVICE

Because **CTU is embracing the Future of Education - Education Beyond the Classroom**, it is compulsory for students to have their **OWN LAPTOP** with the necessary specifications to speed up their journey to success

NOTICE!

- **A device & data is compulsory on and off campus.**
- **Wifi access restricted to resource centres. A minimum of 20 Gig* data is compulsory.**
- **A standard USB headset with a microphone is compulsory.**
- **Uncapped data is recommended.**

***Unless otherwise stated in your programme information**

Distance Learning:

Please note that the same device specifications apply for our Distance Learning programmes with the inclusion of a **web camera**.



LEARNING RESOURCES

O'REILLY ONLINE LEARNING:

An online library of books, video and tutorial resources and pre-published manuscripts.

- Access to titles from more than 100 publishers.
- Dynamic day-by-day updates of new books, videos, pre-published manuscripts and content from these same leading publishers included in price.
- Mobile access: Android & iOS.

CISCO NETWORK ACADEMY:

Cisco Networking Academy is an IT skills and career building program for learning institutions and individuals worldwide. Cisco Networking Academy identifies and develops the skills people and businesses need to thrive in a digital economy. The Networking Academy curriculum is delivered online using a proprietary learning platform in partnership with local learning institutions. Cisco provides the curriculum, learning platform, and support resources.

OFFICE 365:

CTU students will receive an "Office 365 Education for Students" account.

- 50GB mailbox
- 1TB OneDrive space
- Office Web Apps
- MS Teams Collaboration between students

This account's e-mail address will give you access to:

- Prescribed textbooks on O'Reilly Online Learning
- Autodesk student versions
- Adobe ID
- Office 365

SOFTWARE NOTICE:

- CTU Training Solutions does NOT sell or supply software or hardware.
- CTU students studying, UI Design, Graphic Design & Visual Communication are required to purchase Creative Cloud packages.

For more information, read the Rules & Regulations document or Communications module on Campus Online.

NATED LEARNING MATERIALS:

The sourcing of quality Learning Material can be fraught with pitfalls, we have quality materials readily available which carry the endorsement of the education department. They are available for downloading from Future Manager app (eBook for humanities - <https://www.futuremanagers.com/step-by-step-instructions/>) and list of books are available at all our campuses which contribute to advancing professionalism in teaching and learning.

MINIMUM REQUIREMENTS FOR EBOOK DOWNLOADS

ARMv7 Processor with vector FPU, minimum 550MHz, Open GL ES 2.0, H.264 and AAC HW decoders AndroidTM 2.2, 2.3, 3.0, 3.1, 3.2 and 4.0
256MB of RAM Android web browser



COMPUTER (DESKTOP & LAPTOP) REQUIREMENTS

	Motherboard	CPU	RAM	HD	Graphics	Monitor	Input	Operating System
Diploma: IT Network Design & Administration	Minimum: Intel i5/ AMD Ryzen 5 Recommended: Intel i7/AMD Ryzen 7	Minimum: Intel i5/ AMD Ryzen 5 Recommended: Intel i7/AMD Ryzen 7	Minimum 16 GB Memory	Minimum: 500GB SSD/M.2. Recommended: 1TB SSD/M.2	Graphics card with 4GB (or higher) dedicated graphic memory Nvidia or AMD	Any size	USB Mouse, USB Keyboard, Headset	Windows 11 Home Edition
OC: Cloud Administrator								
OC: Computer Technician								
OC: Cybersecurity Analyst								
OC: Cybersecurity Practitioner								
AOD: Chief Information Officer Cybersecurity								
OC: Internet of Things								
OC: Software Developer								
OC: Software Engineer								
Diploma: Visual Communication	Intel i7/AMD Ryzen 7	Intel i7/AMD Ryzen 7	16 GB Memory	500GB SSD/M.2	Graphics card with 4GB (or higher) dedicated graphic memory Nvidia GeForce RTX 2060 or AMD	Resolution: 1920 X 1080 FHD or higher - 4K recommended	USB Mouse, USB Keyboard, Headset	Windows 11 Home Edition
Higher Certificate: Graphic Design								
Computer Aided Drawing Office Practice (CAD) 1 & 2	Intel i7 or AMD Ryzen 7 processor with 64-bit support, 3.4 GHz or faster processor							
HOC: Architectural Draughtsperson								

OC: Occupational Certificate
HOC: Higher Occupational Certificate
AOC: Advanced Occupational Certificate
AOD: Advanced Occupational Diploma

[▲ Back to contents page](#)

COMPUTER (DESKTOP & LAPTOP) REQUIREMENTS

	Motherboard	CPU	RAM	HD	Graphics	Monitor	Input	Operating System
BBA in Project Management	Minimum: Intel i5	Minimum Intel i5	8 GB Memory	500GB SSD/M.2	N/A	Any size	USB Mouse, USB Keyboard, Headset	Windows 11 Home Edition
Higher Certificate: Management								
OC: Project Manager								
HOC: Human Resource Management Administrator								
AOC: Human Resource Management Officer								
AOD: Human Resource Management Advisor								
NATED Engineering								
OC: Environmental Science Technician								

*Devices with specs as listed above are recommended. Technical specs are also relevant when buying a laptop.

SOFTWARE REQUIREMENTS

IT FACULTY

- Microsoft Office 365 is compulsory for all

DIPLOMA: IT NETWORK DESIGN & ADMINISTRATION

- Microsoft Windows 11 (Pro, Enterprise, or Education)
- Linux Operating Systems (e.g., Ubuntu, Debian)
- Microsoft 365 (Office Suite – Latest Version)
- Microsoft Project
- LibreOffice
- Trello
- Microsoft Planner
- Microsoft To Do
- GanttProject
- Cisco Packet Tracer
- GNS3
- VMware Workstation Pro
- Oracle VirtualBox
- Microsoft Access
- XAMPP
- Oracle Database 21c
- Microsoft SQL Server 2019
- CPU-Z
- HWMonitor
- Device Manager
- BIOS / UEFI Configuration Tools
- Acronis Cyber Protect Home Office
- Clonezilla
- Antivirus Software (e.g., Windows Defender, Avast, Bitdefender)
- Network Diagnostic Tools (Ping, Tracert, ipconfig, netstat, nslookup)
- DriverPack Solution
- Snappy Driver Installer
- CompTIA A+ Simulation Tools

OC: COMPUTER TECHNICIAN

- Windows OS / Linux OS
- VMware Workstation / VirtualBox
- CPU-Z / HWMonitor
- Acronis / Clonezilla
- Microsoft Office / LibreOffice
- Device Manager / BIOS Configuration Tools
- Antivirus Software (e.g., Avast, Bitdefender)
- Network Tools (Ping, Tracert, ipconfig)
- DriverPack Solution / Snappy Driver Installer
- CompTIA A+ Simulation Tools

ALL CYBERSECURITY PROGRAMMES

- Kali Linux
- Wireshark
- Metasploit Framework
- Nmap
- Splunk / ELK Stack
- VirtualBox / VMware
- OpenVAS / Nessus
- Microsoft Defender / Azure Security Center
- Python
- Cisco Packet Tracer

OC: CLOUD ADMINISTRATOR

- AWS Management Console / Azure Portal / GCP Console
- Terraform / AWS CloudFormation
- AWS CLI / Azure CLI
- Docker / Kubernetes
- Ansible / Puppet / Chef
- CloudWatch / Azure Monitor / GCP Operations Suite
- Identity and Access Management (IAM) Tools
- Virtual Private Cloud (VPC) Tools
- PowerShell / Bash
- Git / GitHub

OC: INTERNET OF THINGS

- Software/Tool
- Arduino IDE
- Raspberry Pi OS / Raspbian
- Node-RED
- MQTT Broker (e.g., Mosquitto)
- Python / C++ / JavaScript
- Blynk / ThingSpeak
- Wireshark
- Docker
- AWS IoT / Azure IoT Hub / Google IoT Core
- Fritzing

OC: SOFTWARE DEVELOPER

- Software/Tool
- Visual Studio Code / IntelliJ / Eclipse
- Git / GitHub / GitLab
- Python / JavaScript/ HTML / CSS
- MySQL / PostgreSQL / SQLite
- Postman
- Docker
- Firebase / MongoDB / Supabase
- React / Angular / Vue.js
- Android Studio / Xcode
- Trello / Jira

OC: SOFTWARE ENGINEER

- Visual Studio / Visual Studio Code
- Git & GitHub / GitLab
- Docker
- NetBeans
- Postman
- UML Tools (StarUML, Lucidchart)
- Jira / Trello
- Jenkins
- SQL Server / MySQL / PostgreSQL
- MVC (ASP.NET) / Java / C# / PHP

SOFTWARE REQUIREMENTS

DESIGN FACULTY

DIPLOMA: VISUAL COMMUNICATION

- Adobe Creative Cloud software package
(For student's own account)
- Microsoft Office 365

HIGHER CERTIFICATE: GRAPHIC DESIGN

- Adobe Creative Cloud software package
(For student's own account)
- Microsoft Office 365

BUSINESS MANAGEMENT & HUMANITIES FACULTY

ALL BUSINESS MANAGEMENT & HUMANITIES PROGRAMMES

- Microsoft Office 365

ENGINEERING FACULTY

ALL ENGINEERING PROGRAMMES

- Microsoft Office 365

OC: COMPUTER AIDED DRAWING OFFICE PRACTICE (CAD)

- AutoDesk:
 - AutoCad
 - Revit
 - Inventor

HOC: ARCHITECTURAL DRAUGHTSPERSON

- AutoDesk
- AutoCad
- Revit

SUSTAINABILITY FACULTY

ENVIRONMENTAL SCIENCE TECHNICIAN

- Microsoft Office 365



ANDROID MINIMUM SPECIFICATIONS

MINIMUM REQUIREMENTS FOR EBOOK DOWNLOADS

- ARMv7 Processor with vector FPU, minimum 550MHz, Open GL ES 2.0, H.264 and AAC HW decoders
- AndroidTM 2.2, 2.3, 3.0, 3.1, 3.2 and 4.0
- 256MB of RAM
- Android web browser

**HAVE AN COMPLIMENT
OR FEEDBACK?**

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