Personal Learning Device (PLD) for ITE Full-time *Higher Nitec* and *Nitec* Courses
Minimum Laptop Specifications (2025 Intake)

ITE Courses	Minimum Laptop Specifications
• *Higher Nitec* in Accounting • *Higher Nitec* in Accounting (3 years) • *Higher Nitec* in Automotive Engineering • *Higher Nitec* in Beauty & Wellness Management • *Higher Nitec* in Beauty & Wellness Management (3 years) • *Higher Nitec* in Business Administration • *Higher Nitec* in Business Administration (3 years) • *Higher Nitec* in Culinary Arts [for Nitec progression students (1-year)] • *Higher Nitec* in Culinary Arts (for GCE O students) • *Higher Nitec* in Culinary Arts (3 years) • *Higher Nitec* in Customer Experience • *Higher Nitec* in Customer Experience (3 years) • *Higher Nitec* in Early Childhood Education • *Higher Nitec* in Engineering with Business • *Higher Nitec* in Event Management • *Higher Nitec* in Event Management (3 years) • *Higher Nitec* in Hairdressing & Salon Management • *Higher Nitec* in Hairdressing & Salon Management (3 years) • *Higher Nitec* in Hospitality Operations • *Higher Nitec* in Hospitality Operations (3 years) • *Higher Nitec* in Logistics & Supply Chain Management • *Higher Nitec* in Logistics & Supply Chain Management (3 years) • *Higher Nitec* in Marine & Offshore Technology • *Higher Nitec* in Marine Engineering • *Higher Nitec* in Mechanical Engineering • *Higher Nitec* in Passenger Services • *Higher Nitec* in Passenger Services (3 years) • *Higher Nitec* in Pastry & Baking [for Nitec progression students (1-year)] • *Higher Nitec* in Pastry & Baking (for GCE O students) • *Higher Nitec* in Pastry & Baking (3 years) • *Higher Nitec* in Rapid Transit Engineering • *Higher Nitec* in Retail and Online Business • *Higher Nitec* in Retail and Online Business (3 years) • *Higher Nitec* in Retail and Online Business (4 years) • *Higher Nitec* in Sport Management • *Higher Nitec* in Sport Management (3 years) • *Higher Nitec* in Tourism • *Higher Nitec* in Tourism (3 years) • *Higher Nitec* in Vertical Transportation • *Higher Nitec* in Vertical Transportation (3 years) • *Nitec* in Aerospace Avionics • *Nitec* in Aerospace Technology • *Nitec* in Automotive Technology •	• Processor: Intel Core i5-10210U (1.6 GHz with TurboBoost up to 4.2 GHz) • Memory: 8GB • Display: 15.6" HD ComfyView Display • Storage: 1 TB HDD SATA • Graphics: Intel UHD Graphics 620
• *Higher Nitec* in Electrical Engineering • *Higher Nitec* in Electrical Engineering (3 years)	• Processor: Intel Core i5- Gen 10 or equivalent (recommended Intel i5-Gen 11 and above) • Memory: 8GB (recommended 16GB) • Display: 14" • Storage: 512GB SSD • Graphics: Intel UHD Graphics 620

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ITE Courses	Minimum Laptop Specifications
• *Higher Nitec* in Facilities Management & Engineering • *Higher Nitec* in Facilities Management & Engineering (3 years) • *Higher Nitec* in Facilities Management & Engineering (4 years)	• Processor: CPU Single- or Multi-Core Intel®, Xeon®, or i-Series processor or AMD® equivalent with SSE2 technology eg; AMD Ryzen 7 5800X, AMD Ryzen 9 5900X, Intel Core i7-12700KF, Intel Core i9-12900K • Memory: 16GB RAM • Display: Ultra-High (4k) Definition Monitor (at least 1920 x 1200) • Storage: At least 30GB of disk space • Graphics: DirectX 11 capable graphics card with Shader Model 5 and a minimum of 4GB of video memory
• *Higher Nitec* in Electronics Engineering • *Higher Nitec* in Electronics Engineering (3 years) • *Higher Nitec* in Security System Integration • *Higher Nitec* in Security System Integration (3 years)	• Processor: 10th Gen Intel Core i7-1065G7 processor (up to 3.9GHz, 6MB smart cache) • Memory: 16GB LPDDR4X RAM • Display: 14" Full HD IPS Narrow Border Display • Storage: 1TB PCIe NVMe SSD • Graphics: NVIDIA GeForce MX250, 2GB GDDR5 VRAM (optional)
• *Higher Nitec* in Community Care & Social Services • *Higher Nitec* in Community Care & Social Services (3 years) • *Higher Nitec* in Nursing • *Higher Nitec* in Nursing (3 years) • *Higher Nitec* in Opticianry • *Higher Nitec* in Opticianry (3 years)	• Processor: Intel Core i5 9th Gen and above • Memory: at least 8GB Ram • Display: 13" and above • Storage: 256GB with 100GB of free storage • Graphics: Intel UHD Graphics
• *Nitec* in Mechanical Technology • *Nitec* in Mechanical Technology (3 years) • *Nitec* in Rapid Transit Technology	• Processor: Intel Core i5-10210U (1.6 GHz with TurboBoost up to 4.2 GHz) • Memory: 8GB • Display: 15.6" HD ComfyView Display • Storage: 1 TB HDD SATA • Graphics: Intel UHD Graphics 620
• *Higher Nitec* in Civil & Structural Engineering Design • *Higher Nitec* in Civil & Structural Engineering Design (3 years) • *Higher Nitec* in Landscape Management & Design • *Higher Nitec* in Landscape Management & Design (3 years) • *Higher Nitec* in Mechatronics Engineering • *Higher Nitec* in Offshore & Marine Engineering Design • *Higher Nitec* in Robotics & Smart Systems • *Higher Nitec* in Integrated Mechanical & Electrical Design • *Higher Nitec* in Integrated Mechanical & Electrical Design (3 years) • *Nitec* in Mechatronics and Robotics	• Processor: Intel Core i5-10210U (1.6 GHz with TurboBoost up to 4.2 GHz) • Memory: 8GB RAM • Display: 14" HD ComfyView Display • Storage: 1 TB HDD SATA • Graphics: Intel UHD Graphics
• *Higher Nitec* in Applied Food Science • *Higher Nitec* in Applied Food Science (3 years) • *Higher Nitec* in Bio-Chemical Technology • *Higher Nitec* in Bio-Chemical Technology (3 years) • *Higher Nitec* in Chemical Process Technology • *Higher Nitec* in Chemical Process Technology (3 years)	• Processor: 1.6GHz Intel processor or equivalent • Operating system: 32-bit or 64-bit versions of Windows 10 or 11 • Memory: 2GB RAM • Display: Screen resolution of at least 1024x768 • Storage: 2 GB of hard drive space free • Graphics: Intel UHD Graphics • Others: Built-in or external 802.11 2.4/5 GHz wireless adapter

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• *Higher Nitec* in Precision Engineering • *Nitec* in Aerospace Machining Technology • *Nitec* in Digital & Precision Engineering	• Processor: 9th Gen Intel Core i7-9750H processor (up to 4.5GHz, 12MB smart cache) • Memory: 8GB DDR4 RAM • Display: 15.6" Full HD IPS 120Hz Narrow Border Display • Storage: 512GB PCIe NVMe SSD • Graphics: NVIDIA GeForce GTX 1650, 4GB GDDR5 VRAM
• *Higher Nitec* in AI Applications • *Higher Nitec* in AI Applications (3 years) • *Higher Nitec* in Business Information Systems • *Higher Nitec* in Business Information Systems (3 years) • *Higher Nitec* in Cyber & Network Security • *Higher Nitec* in Cyber & Network Security (3 years) • *Higher Nitec* in Data Engineering • *Higher Nitec* in Data Engineering (3 years) • *Higher Nitec* in Immersive Applications & Game • *Higher Nitec* in Immersive Applications & Game (3 years) • *Higher Nitec* in IT Applications Development • *Higher Nitec* in IT Applications Development (3 years) • *Higher Nitec* in IT Systems & Networks • *Higher Nitec* in IT Systems & Networks (3 years) • *Higher Nitec* in Operational & Information Technology • *Higher Nitec* in Operational & Information Technology (3 years)	• Processor: 10th Gen Intel Core i7-1065G7 processor (up to 3.9GHz, 6MB smart cache) • Memory: 16GB LPDDR4X RAM • Display: 14" Full HD IPS Narrow Border Display • Storage: 1TB PCIe NVMe SSD • Graphics: NVIDIA GeForce MX250, 2GB GDDR5 VRAM
• *Higher Nitec* in Architectural Technology • *Higher Nitec* in Architectural Technology (3 years) • *Higher Nitec* in Communication Design • *Higher Nitec* in Communication Design (3 years) • *Higher Nitec* in Film & Video Production • *Higher Nitec* in Film & Video Production (3 years) • *Higher Nitec* in Interior & Product Design • *Higher Nitec* in Interior & Product Design (3 years) • *Higher Nitec* in Technical Theatre & Production • *Higher Nitec* in Technical Theatre & Production (3 years) • *Higher Nitec* in Visual Merchandising • *Higher Nitec* in Visual Merchandising (3 years)	• Processor: 11th Gen Intel Core i7-1165G7 Processor (2.80 GHz, 12MB Cache, Up to 4.70 GHz) • Memory: 16 GB RAM • Display: 15.6" LED-backlit Slim Full HD 1,920 x 1,080 • Storage: PCIE NVME 256GB SSD + 1TB SATA HDD • Graphics: NVIDIA GeForce GTX 1630 with 4GB GDDR6
<u>**Optional**</u> • *Higher Nitec* in Communication Design • *Higher Nitec* in Communication Design (3 years) • *Higher Nitec* in Film & Video Production • *Higher Nitec* in Film & Video Production (3 years)	• Apple M3 chip with 8-core CPU, 10-core GPU, 16-core Neural Engine • 8GB / 16GB unified memory • 512GB SSD storage • 13.6-inch Liquid Retina display with True Tone • 1080p FaceTime HD camera • MagSafe 3 charging port • Two Thunderbolt / USB 4 ports • 30W / 35W Dual USB-C Port Power Adapter • Backlit Magic Keyboard with Touch ID - US English