

AIT Diploma-Curriculums 2025-2026

Diploma Program	Semester	Subject-Grade	Subject Code	Subject Title	Credit Hours
Diploma in Information Technology	Semester 1	Dip. 1	DIT101	Introduction to Information Technology	3
			DIT102	Computer Hardware & Troubleshooting	3
			DIT103	Programming Fundamentals (Python)	3
			DIT104	Mathematics for Computing	3
			DIT105	Communication & Presentation Skills	3
	Semester 2		DIT201	Object-Oriented Programming (Java or C++)	3
			DIT202	Database Management Systems (SQL & Access)	3
			DIT203	Web Development I (HTML, CSS, JavaScript)	3
			DIT204	Computer Networks I (LAN, Topologies)	3
			DIT205	Operating Systems & File Management	3
	Semester 3	Dip. 2	DIT301	Systems Analysis & Design	3
			DIT302	Web Development II (PHP, MySQL)	3
			DIT303	Computer Networks II (Routing, TCP/IP)	3
			DIT304	Cybersecurity Fundamentals	3
			DIT305	Data Structures & Algorithms	3
	Semester 4		DIT401	Software Engineering & Testing	3
			DIT402	IT Project Management	3
			DIT403	Technopreneurship / ICT & Society	3
			DIT404	Internship / Industrial Attachment	
			DIT405	Capstone Project	
Diploma in Web Design and Web Development	Semester 1	Dip. 1	WDWD101	Introduction to Web Technologies	3
			WDWD102	HTML & CSS – Responsive Web Design	3
			WDWD103	Graphic Design for the Web	3
			WDWD104	Introduction to UI/UX Design Principles	3
			WDWD105	Communication Skills for Creatives	3
	Semester 2		WDWD201	JavaScript Programming Basics	3
			WDWD202	Advanced CSS & Flexbox/Grid Systems	3
			WDWD203	Version Control with Git & GitHub	3
			WDWD204	Web Accessibility & SEO Fundamentals	3
			WDWD205	Typography & Color Theory in Web Design	3
	Semester 3	Dip. 2	WDWD301	Server-Side Programming with PHP or Node.js	3
			WDWD302	MySQL / MongoDB for Web Applications	3
			WDWD303	CMS Development	3
			WDWD304	Web Hosting, Deployment & CPanel	3
			WDWD305	Project: Dynamic Website Development	3
	Semester 4		WDWD401	JavaScript Framework (React.js or Vue.js)	3
			WDWD402	Freelancing, Portfolio & Client Work	3
			WDWD403	Agile Development & Project Management	3
			WDWD404	Internship / Live Project with Client	
			WDWD405	Capstone Project – Full Web Application	
Diploma in Computer Hardware and Networking	Semester 1	Dip. 1	DCHN101	Introduction to Information Technology	3
			CHN102	Computer Hardware Basics	3
			CHN103	Digital Electronics for IT	3
			CHN104	Operating Systems Fundamentals	3
			CHN105	Communication & Technical Documentation Skills	3
	Semester 2		CHN201	Networking Fundamentals (OSI, TCP/IP)	3
			CHN202	Network Cabling & LAN Setup	3
			CHN203	Preventive Maintenance & Troubleshooting	3
			CHN204	Introduction to Server Systems	3
			CHN205	Introduction to Scripting	3
	Semester 3	Dip. 2	CHN301	Routing & Switching	3
			CHN302	Wireless & Mobile Networks	3
			CHN303	Network Security Basics	3
			CHN304	Cloud & Virtualization Concepts	3
			CHN305	IT Support & Helpdesk Tools	3
	Semester 4		CHN401	Network Administration	3
			CHN402	IT Project Management	3
			CHN403	Entrepreneurship in ICT	3
			CHN404	Internship / Industry Attachment	
			CHN405	Final Capstone Project	
Diploma in Artificial Intelligence and Machine Learning	Semester 1	Dip. 1	AIML101	Introduction to AI & ML Concepts	3
			AIML102	Programming with Python	3
			AIML103	Linear Algebra for AI	3
			AIML104	Probability & Statistics for ML	3
			AIML105	Data Handling using NumPy & Pandas	3
	Semester 2		AIML201	Supervised Learning Algorithms	3
			AIML202	Unsupervised Learning Algorithms	3
			AIML203	Data Visualization	3
			AIML204	Data Preprocessing & Feature Engineering	3
			AIML205	Introduction to Neural Networks	3
	Semester 3	Dip. 2	AIML301	Deep Learning	3
			AIML302	Natural Language Processing	3
			AIML303	Computer Vision	3
			AIML304	Machine Learning Model Evaluation	3
			AIML305	Ethics in AI & Responsible AI	3
	Semester 4		AIML401	AI Project Management & Agile Methodologies	3
			AIML402	Cloud Platforms for AI	3
			AIML403	Capstone Project in AI/ML	3
			AIML404	Internship / Industry Attachment	
			AIML405	Portfolio & Career Development in AI	