

# PROGRAMS OFFERED

## Diploma Programs

AMSTech offers both short-term and long-term diploma programs to cater to different career paths and time commitments. Our diplomas are approved by the SBTE (Sindh Board of Technical Education)

### APPROVED COURSES BY SBTE

	Course Name	Duration	Equivalent
<b>DAE</b>	<i>Artificial Intelligence Technology</i>	<b>3 Years</b>	<i>Equivalent to F.Sc , can get university admission in BS engineering science &amp; technology program</i>
<b>DAE</b>	<i>Cyber Security &amp; Networks</i>		
<b>DAE</b>	<i>Software Technology</i>		
<b>DIT</b>	<i>Diploma in Information Technology</i>	<b>2 Years</b>	<i>DIT equivalent to intermediate computer science, can get admission in BS computer science, engineering &amp; technology</i>
<b>DIPLOMA</b>	<i>Artificial Intelligence Technology</i>	<b>1 Year</b>	<i>To provide rapid hands-on training to enter the tech industry quickly</i>
<b>DIPLOMA</b>	<i>Cyber Security</i>		
<b>DIPLOMA</b>	<i>Information Technology</i>		
<b>CERTIFICATE</b>	<i>Computer Information Technology (CIT)</i>	<b>6 Months</b>	<i>Highly cost effective, focus on skill development to enter the tech and creative job market, or start freelancing quickly</i>
<b>CERTIFICATE</b>	<i>Graphic Designing</i>		
<b>CERTIFICATE</b>	<i>Web Designing</i>		

# ACADEMIC PROGRAMS

## Diploma of Associate Engineering (DAE) in Cyber Security & Network

### Duration: 3 years

The program covers Network Security, Ethical Hacking, Digital Forensics, and Cyber Threat Management, as well as fundamental DAE subjects such as Applied Mathematics, Physics, and Programming Fundamentals.



### Practical Skills:

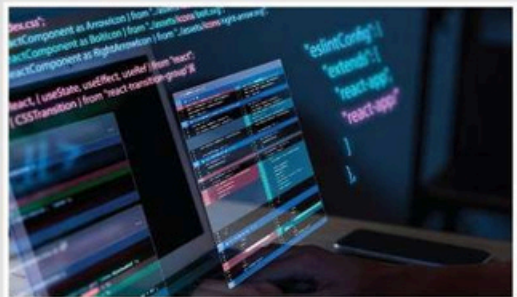
Students will learn to secure IT infrastructure, conduct vulnerability assessments, implement firewall policies, respond to security incidents, and ensure data confidentiality in accordance with industry protocols.

## Diploma of Associate Engineering (DAE) in Software Technology

### Duration: 3 years

### Course Outline:

The program covers Programming Fundamentals (C++/Java), Web & Mobile App Development, Database Management, and Object-Oriented Analysis, as well as core DAE subjects like Applied Mathematics, Physics, and English. Students will learn the complete Software Development Life Cycle (SDLC), including UI/UX design, backend integration, and quality assurance testing to build industry-ready applications



### Career Path:

Graduates can work as Junior Software Developers, Web Designers, Database Assistants, or Quality Assurance Interns in IT firms, banks, and government sectors. With experience, career progression leads to roles like Full-Stack Developer, Software Engineer, Systems Analyst, or IT Project Coordinator, with further certifications in cloud computing or mobile technologies.

# Diploma of Associate Engineering (DAE) in Artificial Intelligence Technology

**Duration: 3 years**

## Course Outline:

The program covers AI Fundamentals, Python Programming, Machine Learning (Supervised & Unsupervised), Deep Learning, Neural Networks, Data Science, Computer Vision, and Natural Language Processing (NLP). Students also gain hands-on experience in data preprocessing, algorithm design, digital media tools, and real-world AI applications, including object detection, fraud detection, chatbots, forecasting models, and self-driving vehicle concepts.



## Career Path:

Graduates can work as AI Developers, Data Analysts, Python Developers, Machine Learning Assistants, or Freelance AI Specialists in IT firms, banks, healthcare, e-commerce, and government sectors

# DIT (Diploma in Information Technology)

**Duration: 2 years**

## Course Outline:



The program covers Introduction to ICT, Programming Fundamentals (C++/Python), Operating Systems, Database Management Systems (DBMS), Data Communication & Computer Networks, Web Development, and Graphics Design. Students also gain hands-on experience in Computer Applications (MS Office), Digital Logic Design, Video Editing, and IT infrastructure basics to build practical, industry-ready skills.

## Career Path:

Graduates can work as IT Support Assistants, Junior Network Technicians, Database Operators, Web Design Assistants, or Computer Lab Supervisors in schools, banks, government offices, and small/medium IT firms



## Diploma in Cyber Security

**Duration: 1 years**

### Course Outline:

This program prepares students to protect computer systems, networks, and data from cyber threats. Topics include network security, ethical hacking, cryptography, and security compliance.

### Career Path:

Cyber Security Analyst, Network Security Administrator, Ethical Hacker, Security Consultant, IT Risk Analyst

## Diploma in Information Technology (DIT)

**Duration: 1 year**

### Course Outline:

This program provides foundational knowledge in computer applications, internet fundamentals, email communication, MS Office (Word, Excel, PowerPoint), basic programming concepts, and IT troubleshooting. Students also learn graphic design basics, web development fundamentals, and computer hardware awareness to prepare for entry-level IT roles.



### Career Path:

IT Support Assistant, Data Entry Operator, Computer Lab Assistant, Junior Office Assistant, or Freelance Data Entry/Office Automation Specialist.

## Diploma in Artificial Intelligence Technology

**Duration: 1 years**



### Course Outline:

This program introduces students to AI fundamentals, Python programming basics, data handling, introduction to machine learning concepts, and intelligent system design. Students also learn problem-solving using algorithms, basic data visualization, and real-world applications of AI in daily life.

### Career Path:

AI Lab Assistant, Junior Python Developer, Data Entry Analyst (AI-focused), AI Support Technician, or Freelance AI Assistant/Data Labeling Specialist

## Certificate in Information Technology (CIT)

### Duration: 6 Month

A foundational course covering computer basics, Microsoft Office, internet fundamentals, email communication, and basic troubleshooting.

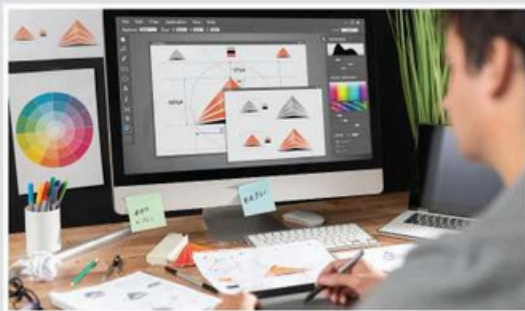
#### Career Path:

Office Assistant, Data Entry Operator, IT Support Assistant, Computer Operator



## Certificate in Graphic Design

### Duration: 6 Month



This program teaches visual communication, design principles, and industry-standard software, including Adobe Photoshop, Illustrator, and InDesign.

#### Career Path:

Graphic Designer, Visual Designer, Social Media Designer, Print Media Assistant, Freelance Designer

## Certificate in Web Designing

### Duration: 6 Month

Students learn to design and build responsive websites using HTML, CSS, JavaScript, and modern design frameworks.

#### Career Path:

Web Designer, Front-End Developer, UI Assistant, Freelance Web Designer, WordPress Developer

