

## LONG COURSES (দীর্ঘমেয়াদি প্রশিক্ষণ)

### Course Title: Diploma in Information and Communication Technology (DICT)

**Duration:**

6 Months (312 Hours with 4 hours/day)

**Prerequisite:**

Minimum H.S.C or A level or equivalent with basic computing knowledge.

**Course Outline:**

**Module 1: Computer Fundamental and Office Applications**

Operating system, MS Word, Excel, PowerPoint, Internet & e-mail, etc.

**Module 2: Computer Hardware, Maintenance and Troubleshooting**

Basic organization of computer, Hardware and software installation and troubleshooting, number system, logic gates, Boolean algebra, etc.

**Module 3: Programming in C/C++**

Concepts, technique, flowchart, data types, control structure, array, functions, pointer, etc.

**Module 4: Database Management System**

DBMS models, SQL, DB administration, backup & recovery etc.

**Module 5: Graphic Design and Multimedia**

Basics of vector and raster image, image editing and designing, video and audio editing, rendering, animation, etc.

**Module 6: Web Site Design and Web Application Development**

Basics of web technologies; web development tools; static and dynamic website design using HTML, CSS, JavaScript, PHP, MySQL, etc; web hosting.

**Module 7: Data Communication and Computer Network**

Basics of data communication & signal processing, OSI model, IP addressing, cabling, LAN, WAN & its applications etc.

**Module 8: Project work**

Project work on any subject from module 3, 5, 6, 7)

### Course Title: Advance Diploma in Website Design and Development (DWAD)

**Duration:**

6 Months (312 Hours with 4 hours/day)

**Prerequisite:**

Minimum H.S.C or A level or equivalent with basic knowledge on computer programming, image editing.

**Course Outline:**

**Module 1: Basics of web, static web design**

HTML, CSS and JS

**Module 2: Professional web design**

PSD to HTML, Bootstrap

**Module 3: Dynamic web development**

PHP, MySQL

**Module 4: Object Oriented Programming**

OOP PHP

**Module 5: Web development using framework**

Professional web development using Laraval, CodeIgniter or any popular framework

**Module 6: Content Management System**

WordPress

**Module 7: Freelancing and outsourcing technique**

**Module 8: Project work**

## **Advance Diploma in Graphic Design and Multimedia Tech (DGMT)**

### **Duration:**

6 Months (312 Hours with 4 hours/day)

### **Prerequisite:**

Minimum H.S.C or A level or equivalent with basic knowledge on computer applications.

### **Course Outline:**

**Module 1:** Image Editing using Adobe Photoshop and Aftereffect

**Module 2:** Vector Image creation using Adobe Illustrator and Indesign

**Module 3:** Video Editing using Adobe Premier Pro

**Module 4:** Audio Editing using Adobe Audition/Soundforge

**Module 5:** 2D and 3D design using 3D Studio Max / Maya

**Module 6:** Animation using 3D Studio Max / Maya

**Module 7:** Freelancing and Outsourcing Techniques

**Module 8:** Project work

**Note:** A one year diploma in certificate will be provided if any trainee complete any 6 months advance diploma with 6 months DICT.

### **Exam and evaluation method:**

Trainees will be evaluated by attendance (10%) + class tests (20%) + one midterm (30%) + one term final (40%) exams in each subject.

### **Grading System:**

Total Course will be evaluated by numeric and letter grading method as follows:

Marks	Letter	Numeric	Remarks
90% or above	A+	4.0	Students must earn 1.5 Grades to pass in each subject with 2.0 in average CGPA to obtain certificate.
>=80% and <90%	A	3.5	
>=70% and <80%	B+	3.0	
>=60% and <70%	B	2.5	
>=50% and <60%	C+	2.0	
>=40% and <50%	C	1.5	
Less than 40%	F	0.0	