



**Information
Technology
Institute**

PROFESSIONAL TRAINING PROGRAM 2021/2022

PROFESSIONAL WEB DEVELOPMENT & BI

Track Overview

**People Develop Countries...
We Develop People**

Professional Web Development & BI



DESCRIPTION

ITI – (Professional Web Development & BI) Specialization - is a product-based program that will empower you to learn the latest technologies in Full stack web development and business intelligence tools.



WHO MAY APPLY

All University Graduates with prerequisites of basic programming skills, HTML, CSS, OOP, DB



TRACK DURATION

1500 Hours about 9 months (learning and project).



DELIVERY APPROACH

Blended between Self-paced, Synchronous Learning and Guided Practices with a Project Based Focused Journey.

BEFORE YOU APPLY

Candidates will have to complete the following prerequisite courses to join our program:

An Introduction to Programming could be found at Coursera: <https://www.coursera.org/learn/intro-programming>

or Computer Programming Tutorial at

https://www.tutorialspoint.com/computer_programming/index.htm

Introduction to web Technologies could be found at MaharaTech: <http://bit.ly/2OGcLix>

or Udacity <https://classroom.udacity.com/courses/ud001>

Introduction to Database could be found at MaharaTech:

<https://maharatech.gov.eg/enrol/index.php?id=740>

or Khan Academy <https://www.khanacademy.org/computing/computer-programming/sql>

Professional Web Development & BI



GRADUATE PROFILES

- Microsoft .Net Full Stack Web Developer
- Business Intelligence and Machine Learning Specialist
- Front End Developer
- Microsoft Cloud Application Developer



REQUIRED TOOLS

- VSCode, and/or Brackets
- Nodejs
- Postman
- Visual Studio
- Microsoft SQL Server Management Studio.



TRACK PRACTICES

Candidates are working together in one of the following Suggested Projects:

- Netflix.
- The guardian.
- Airbnb.
- Upwork.
- Lego.

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OVERALL LEARNING JOURNEY OUTLINE

Fundamentals Courses

- Agile Software Development Methodologies
- Client-Side Technologies
- Data Structures and Algorithms
- Database Fundamentals
- HTML5 & CSS3
- Introduction to Programming
- Introduction to Software Engineering
- Object-Oriented Programming Concepts
- Devops
- XML Fundamentals
- Visual C# .Net
- Language Integrated Query(LINQ)
- Entity Framework 6 & Core
- .Net Design Patterns
- Advanced JavaScript
- Advanced SQL Server Programming
- Windows presentation foundation
- IIS Administration
- Object Oriented Analysis & Design using UML
- ASP.Net Core MVC
- ASP.Net Core Blazor
- ASP .Net Web APIs
- Introduction to gRPC on .Net Core
- ASP.Net SignalR
- Introduction to MS - Azure
- Unit Testing
- jQuery Fundamentals
- Angular Fundamentals
- Node.js Fundamentals
- MongoDB
- ES.Next
- Responsive Web Fundamentals
- Microsoft Team Foundation Server & VS Architecture Tools

Core Courses

- Microsoft SQL Server - Business Intelligence
- Elective Course (IBM Datastage and Integration)
- PowerPivot & Power BI
- Introduction to Data Mining Algorithms
- Microsoft Azure for Developer (Dev,Storage,Cognitive)
- Introduction to BigData & Hadoop
- Elective Course (Calculus & Statistics Concepts)
- Elective Course (Introduction to Machine Learning & Data Scientist)
- Elective Course (Azure Machine Learning)

Soft Skills Courses

- Communication Essentials for Professionals
- High Impact Presentations
- Progressive Teamwork
- Job Seeking Skills

OTHER USEFUL INFORMATION

(Collaborative activities, Outstanding facilities, Remarkable Opportunities, Talents' Innovation, Industry partners ...etc.)