



## Web & User Interface Development

People Develop Countries... We Develop P.E.O.P.L.E.

# Program Admission Arrangements

## Who May Apply?

- **Graduates of:**  
All University Graduates

## Prerequisites

These topics will be discussed with you in the interviews (Resources applicants can visit or study before interview)  
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](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>

ITI values that could be found here: <https://iti.gov.eg/about-us>

## Selection Process

- **Phase 1: IQ and Problem-Solving exam | English exam**
- **Phase 2: Technical Exam (C Programming, OOP, DB, Web Development→ Questions Level form basics to Intermediate )**  
Computer-based technical exam in the field of your interest
- **Phase 3: Technical Interview**  
Those applicants would be discussing with the interviewing panel their pre-work -“Before You Apply” - in a one-to-one interview
- **Phase 4: Interpersonal Skills Interview**  
Those how pass phase 3 will be promoted to this interview

## Delivery Approach

- 75% face to face Learning| 25 % Online
- Common Hardware
- Common Software

## Students' Deliverables

- Each student must deliver at lest ONE **freelancing** job and an international **certificate** based on his track



# Web & User Interface Track

## 1 Programs Offered

- ☑ **Professional Training Program:**
  - MEAN Stack Developer
  - MERN Stack Developer
  - UI-UX Designer
- ☑ **Undergrads Summer Camps**
- ☑ **Online Services (MaharaTech, ITI Tech Leap)**

## 2 Industry/Academy Stakeholders

- N/A

## 3 Targeted Outcome

- **Employability**
  - Yodawi
  - Booking
  - Souq
  - EventBrite
  - Vezeeta.
  - Fawry
  - Aman
  - Valeo
  - \_VOIS
  - EVA Pharma
  - Etisalat
  - Genwin
  - Link
  - Giza System
  - Sprinters

## 4 Certifications

HTML5, CSS3, JS (40 H)  
ES6(2 H)  
Angular(38 H)  
MTA: Introduction to Programming Using HTML and CSS

## 5 Graduates Job Profiles

### MEAN Stack Developer

Mean stack is one of the JavaScript stacks used by full-stack developers to create websites and web applications. Mean stack is the framework that supports programs written in JavaScript for server-side and client-side execution handling.

### MERN Stack Developer

MERN is a full-stack application that adheres to the traditional 3-tier architectural pattern, which includes the front-end display tier (React. js), application tier (Express. js and Node. js), and database tier (MongoDB)

### Frontend Developer

builds the front-end portion of websites and web applications using web languages such as HTML, CSS, and JavaScript

### Full Stack Web Developer

can build both the front end and the back end of a website using different javascript libraries and frameworks like reactjs angular vuejs and nodejs .

### UI-UX Designer

aims to create a positive user experience that encourages customers to stick with a brand or product. While a UX Designer decides how the user interface works, the UI designer decides how the user interface looks.



# Web & User Interface Track

1014 Hours

## Program Content Structure

### Software Development Fundamentals

- Data Structures and Algorithms
- Database Fundamentals
- Introduction to Programming
- Object-Oriented Programming Concepts
- Operating Systems Fundamentals

### Software Design Essentials

- Agile Software Development Methodologies
- Introduction to DevOps
- Introduction to Software Engineering
- Object Oriented Analysis & Design using UML
- Introduction to MS - Azure
- JavaScript Design Patterns
- JavaScript Unit Testing
- IIS Administration
- Source Control
- Docker and Kubernetes Fundamentals
- E-Business Fundamentals
- Internet Marketing
- Introduction to Computer Networks & Cyber Security
- Secure Coding Essentials
- Design elements and Prototype

### Soft Skills Courses

- Progressive Teamwork and Leadership Skills (Workshop)
- Professional Demeanor (Workshop)
- Best Practices For Remote Working (Workshop)
- Communication Essentials for Professionals
- High Impact Presentations
- Job Seeking Skills

### Frontend Web Development

- Client-Side Technologies
- HTML5 & CSS3
- jQuery Fundamentals
- Responsive Web Fundamentals
- Responsive Web Design Frameworks
- Material UI for React.js
- Modern Responsive Web Design Frameworks
- CSS Preprocessor
- TypeScript
- Vue.js fundamentals
- React.js Fundamentals
- Next.js Fundamentals

### MEAN Stack Development

- Angular Fundamentals
- Angular NgRx and Reactive RxJS
- Node.js Fundamentals
- Nest JS
- NoSQL Database Fundamentals
- Advanced JavaScript
- JavaScript Modern Frameworks and Architecture
- GraphQL API
- Relational Database
- ES.Next
- PWA

### UI/UX Concept and Technologies

- UI/UX Design principles and wireframing
- UX Writing Fundamentals
- Design Thinking
- Adobe Photoshop Web
- Adobe Illustrator Web
- Visual Design For Web

### AI Courses

- UI Introduction to Generative AI and Prompt Engineering
- AI-powered Coding Assistant tools
- Developing Gen-AI based software

