

2021/2022

WEB & USER INTERFACE DEVELOPMENT

Track Overview

People Develop Countries... We Develop People



DESCRIPTION

ITI – (Web & User Interface) Specialization – is a product based program that will graduate professional, world class, and well-educated software engineering that will be responsible for front-end developer with the deep knowledge of UI/UX and responsive web design concepts.



WHO MAY APPLY

Applicants willing to expand their skills and knowledge and fulfilling the following criteria are eligible to apply Gender: Female & Male Nationality: Egyptians Military Service: Exempted or Deferred or Completed



Educational Degree : Bachelor Degree Graduation Year : Last 5 Years Min Grade REACK DURATION

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1086 Hours about 9 months (learning and project).



DELIVERY APPROACH

20% Self-paced | 40% Online | 40% Guided Practices
Project Based Focused Journey
Your Mentor supports throughout all the learning journey

BEFORE YOU APPLY

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

- Introduction to Programming Concepts could be found at Udacity
 https://www.udacity.com/course/c-plus-plus-nanodegree--nd213
- or Coursera https://www.coursera.org/learn/intro-programming
- Introduction to web Technologies could be found at MaharaTech: http://bit.ly/20GcLix
- or Udacity https://classroom.udacity.com/courses/ud001
 or Khan Academy https://www.khanacademy.org/computing/computer-programming/html-css
- 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-



GRADUATE PROFILES

- UI/UX Developer
- JavaScript Developer
- Angular Developer
- React Developer



REQUIRED TOOLS

- Microsoft Visual Studio
- Microsoft SQL Server
- Adobe Photoshop
- Adobe Illustrator



TRACK PRACTICES

Candidates may work together in one of the following Suggested Projects:

- Healthcare application (competitor to Vezeeta or Doctolib application).
- An Online course and examination management system (competitor to Udemy, Coursera, Udacity).



OVERALL LEARNING JOURNEY OUTLINE

Software Development Fundamentals

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

Frontend web Development

- Client-Side Technologies
- HTML5 & CSS3
- jQuery Fundamentals
- Responsive Web Fundamentals

MEAN Stack Development

- Angular Fundamentals
- Node.js Fundamentals
- MongoDB
- Advanced JavaScript
- ES.Next



OVERALL LEARNING JOURNEY OUTLINE

Microsoft Web Application Development

- ■ASP.Net Core MVC
- Service Oriented Applications with WCF and Web API
- ASP.Net SignalR
- ■Introduction to gRPC on .Net Core
- ■ASP.Net Core Blazor
- IIS Administration
- ■Introduction to MS Azure

Software Design and Development

Methodologies

- Agile Software Development Methodologies
- ■DevOns
- Introduction to Software Engineering
- Object Oriented Analysis & Design using UML
- ■.Net Design Patterns
- SOLID Design Principles & Implementations
- MVVM Light Toolkit Fundamentals
- Microsoft Team Foundation Server & VS Architecture Tools
- Unit Testing
- ■Test Driven Development
- AWS Fundamentals
- Docker and Kubernetes Fundamentals

Microsoft .Net Core Programming

- Visual C# .Net Language
- Integrated Query(LINQ)
- ■Entity Framework 6 & Core
- Advanced SQL Server Programming
- Windows presentation foundation



OVERALL LEARNING JOURNEY OUTLINE

E-Business Marketing Concepts

- ■E-Business Fundamentals
- Internet Marketing

UI/UX Design Concepts & Methodologies

- •UI/UX Design principles and wireframing
- ■Design Thinking
- Visual Design For Web
- Adobe Photoshop Web
- Adobe Illustrator Web
- ■Adobe XD
- ■Design elements and Prototype

Soft Skills Courses

- Business Communication
- Advanced Presentation Skills
- Interviewing Skills
- ■Workplace Professionalism

OTHER USEFUL INFORMATION

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