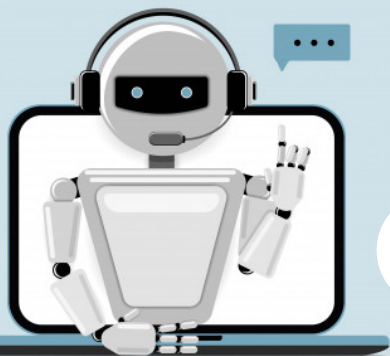




Professional Web Developer & BI



Read Carefully and Don't Miss any details

Technical Road-Map Information

Before You Apply ...

"These topics will be discussed with you in the interviews"

Programming Concepts that can be founded at Udacity <https://www.udacity.com/course/c-plus-plus-nanodegree--nd213>

Database Fundamentals by studying this course at Khan Academy <https://www.khanacademy.org/computing/computer-programming/sql> or MaharaTech (<https://maharatech.gov.eg/enrol/index.php?id=740>)

Introduction to web Technologies could be found in the following links

<http://www.maharatech.gov.eg>

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

ITI values that could be found here: [http:// www.iti.gov.eg/Site/AboutUs](http://www.iti.gov.eg/Site/AboutUs)

Selection Process ...

PH01 – Phase 1

Aptitude Test | IQ Test | EQ Test | English Test

PH02 – Phase 2

Applicants who pass the above exams will be promoted to technical and interpersonal skills interview. Those applicant would be discussing with the interviewing panel their pre-work in a one to one interview

PH03 – Phase 3

A second level interview would be held with ITI board members

Ranking, Job
Demand

#2 The Best Jobs of 2020
(Full Stack Developer)
Indeed Employment Engine

<https://www.indeed.com/lead/best-jobs-2020>

#1 Top skills for career Path
, IEEE Computer Society
(Machine Learning)

<https://www.computer.org/publications/tech-news/trends/top-career-skills-to-land-in-your-dream-tech-companies>

Delivery Approach ...

Learning Journey in
Track follows:

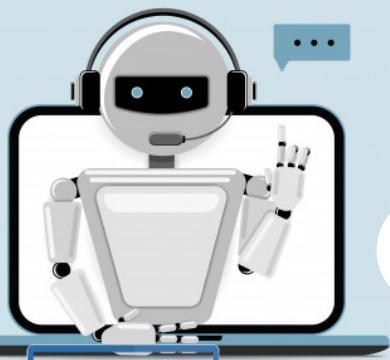
20% Self-paced | 40% Online | 40% Guided Practices
Project Based Focused Journey
Your Mentor supports throughout all the learning journey

Syllabus Overview ...

19% | Software Development Fundamentals & Essentials
30% | .Net Core & Web Application Development
20% | Front End & Mean Stack
9% | Software Design Methodologies
13% | Business Intelligence & Machine Learning
4% | **Microsoft Dynamics CRM**
5% | Soft Skills

Graduate Profile ...

Microsoft .Net Full Stack Web Developer
Business Intelligence and Machine Learning Specialist
FrontEnd Developer
Microsoft Cloud Application Developer



Read Carefully and Don't Miss any details

Technical Road-Map Syllabus

SY01 – 19%

Software Development Fundamentals & Essentials

- Operating Systems Fundamentals
- Introduction to Computer Networks & Cyber Security
- Data Structures and Algorithms
- Database Fundamentals
- Introduction to Programming
- Introduction to Software Engineering
- Object-Oriented Programming Concepts
- XML Fundamentals

SY02 – 20%

Front End & Mean Stack

- Client-Side Technologies
- HTML5 & CSS3
- Responsive Web Fundamentals
- jQuery Fundamentals
- Angular Fundamentals
- Node.js Fundamentals
- MongoDB
- ES.Next
- Advanced JavaScript

SY03 – 30%

.Net Core & Web Application Development

- IIS Administration
- Visual C# .Net
- Advanced SQL Server Programming
- Language Integrated Query(LINQ)
- Windows presentation foundation
- ASP.Net Core MVC
- ASP.Net Core Blazor
- ASP .Net Web APIs
- Introduction to gRPC on .Net Core
- ASP.Net SignalR
- Entity Framework 6 & Core
- Introduction to MS - Azure

SY04 – 5%

SoftSkills

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

SY05 – 9%

Software Design Methodologies

- Agile Software Development Methodologies
- Devops
- Object Oriented Analysis & Design using UML
- Unit Testing
- .Net Design Patterns
- Source Control

SY06 – 13%

Business Intelligence & Machine Learning

- Microsoft SQL Server - Business Intelligence
- IBM Datastage and Integration
- PowerPivot & Power BI
- Introduction to Data Mining Algorithms
- Introduction to BigData & Hadoop
- Calculus & Statistics Concepts
- Introduction to Machine Learning & Data Scientist

SY07 – 4%

Microsoft Dynamics CRM

- Microsoft Dynamics CRM
- Microsoft Dynamics CRM Development

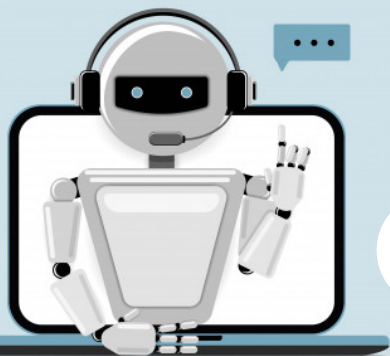
Product oriented approach that gives you the skills to build one of the following products:
Souq.Com With Dashboard & Analytics
Upwork



V00.00.29.06.20

Software Architecture

Track Overview



Read Carefully and Don't Miss any details

Technical Road-Map Information

Before You Apply ...

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/2OGcLix> 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-programming/sql> ITI values that could be found here: <http://www.iti.gov.eg/Site/AboutUs>

Selection Process ...

PH01 – Phase 1

Aptitude Test | IQ Test | EQ Test | English Test

PH02 – Phase 2

Applicants who pass the above exams will be promoted to technical and interpersonal skills interview. Those applicant would be discussing with the interviewing panel their pre-work in a one to one interview

PH03 – Phase 3

A second level interview would be held with ITI board members

Ranking, Job
Demand

#2 Recommended
Developer role, stack overflow
Developer Role 2022 survey

<https://insights.stackoverflow.com/survey/2020>

#5 Recommended Job for
career path
TIOBE Index for June 2022

<https://www.tiobe.com/tiobe-index/>

Delivery Approach ...

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

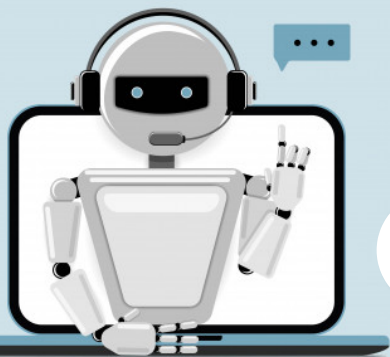
Syllabus Overview ...

19% | Software Development Fundamentals
9% | Frontend Web Development
10% | MEAN Stack Development
13% | Microsoft Web Applications Development
14% | Software Design and Development Methodologies
14% | Software Architecture Concept and Techniques
15% | Microsoft .Net Core Programming
6% | SoftSkills

Graduate Profile ...

Solution Architect
MEAN Developer
Full-Stack Web Developer
Microsoft Web Solution Developer
Microsoft Desktop Solution Developer

Learning Journey in
Track follows:



Read Carefully and Don't Miss any details

Technical Road-Map Syllabus

Product oriented approach that gives you the skills to build one of the following products:
Alibaba
Marsool
Booking

SY01 – 19%

Software Development Fundamentals

- Operating Systems Fundamentals
- Introduction to Computer Networks & Cyber Security
- Data Structures and Algorithms
- Database Fundamentals
- XML Fundamentals
- Introduction to Programming
- Object-Oriented Programming Concepts

SY05 – 14%

Software Design and Development Methodologies

- Agile Software Development Methodologies
- DevOps
- 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

SY02 – 9%

Frontend web Development

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

SY03 – 10%

MEAN Stack Development

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

SY04 – 13%

Microsoft Web Application Development

- ASP.Net Core MVC
- ASP.Net Web API
- ASP.Net SignalR
- Introduction to gRPC on .Net Core
- ASP.Net Core Blazor
- IIS Administration
- Introduction to MS - Azure

SY06 – 14%

Software Architecture Concepts and Techniques

- Introduction to Software Architecture
- Domain Driven Design
- Event Driven Architecture with Event Sourcing
- SOA Design Concepts with N Layered Architecture
- Aspect Oriented Architecture
- ORM Concepts and Technique
- Cloud Application Architecture & Scalability
- Microservices Architecture
- Modern Software Architecture Concepts and techniques
- AWS Fundamentals
- Docker and Kubernetes Fundamentals

SY07 – 15%

Microsoft .Net Core Programming

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

SY08 – 6%

SoftSkills

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



- **Track Overview**

Mobile Cross Platform Technical Road-Map

Before You Apply ...

“These topics will be discussed with you in the interviews”

- An Introduction to Programming by studying this course at Coursera “An Introduction to Programming” <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 in the following links <http://www.maharatech.gov.eg> <https://classroom.udacity.com/courses/ud001> <https://www.khanacademy.org/computing/computer-programming/html-css>
- Database Fundamentals by studying this course at Khan Academy <https://www.khanacademy.org/computing/computer-programming/sql>
- ITI values that could be found here: <http://www.iti.gov.eg/Site/AboutUs>

Selection Process ...

PH01 – Phase 1

Aptitude Test | IQ Test | EQ Test | English Test

PH02 – Phase 2

Applicants who pass the above exams will be promoted to technical and interpersonal skills interview. Those applicant would be discussing with the interviewing panel their pre-work in a one to one interview

PH03 – Phase 3

A second level interview would be held with ITI board members

Delivery Approach ...

Learning Journey in Track follows:

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

Syllabus Overview ...

20% | Software Development Fundamentals and Essentials
15% | MEAN Stack Development
16% | Microsoft Web Applications Development
11% | Frontend Web Development
19% | Mobile Applications Development Concept and Technologies
19% | Microsoft .Net Core Programming

Graduate Profile ...

Full Stack Web Developer
Mean Stack Developer
.Net Developer
Xamarin Developer
Flutter Developer
React Native Developer

Mobile Cross Platform Technical Road-Map Syllabus

SY01 – 20%

Software Development Fundamentals and Project Management Essentials

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

SY01 – 19%

Microsoft .Net Core Programming

Visual C# .Net
Language Integrated Query(LINQ)
Entity Framework 6 & Core
Introduction to gRPC on .NET core
ASP.NET Core Blazor
Advanced SQL Server Programming

SY04 – 11%

Frontend Web Development

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

SY02 – 19%

Mobile Applications Development Concept and Technologies

React JS
React Native
Flutter Development
Xamarin Development
Firebase

Product oriented approach that gives you the skills to build one of the following products:

AirBNB
StackOverFlow
Yodawi
Swvl
Otlob
Booking

SY05 – 15%

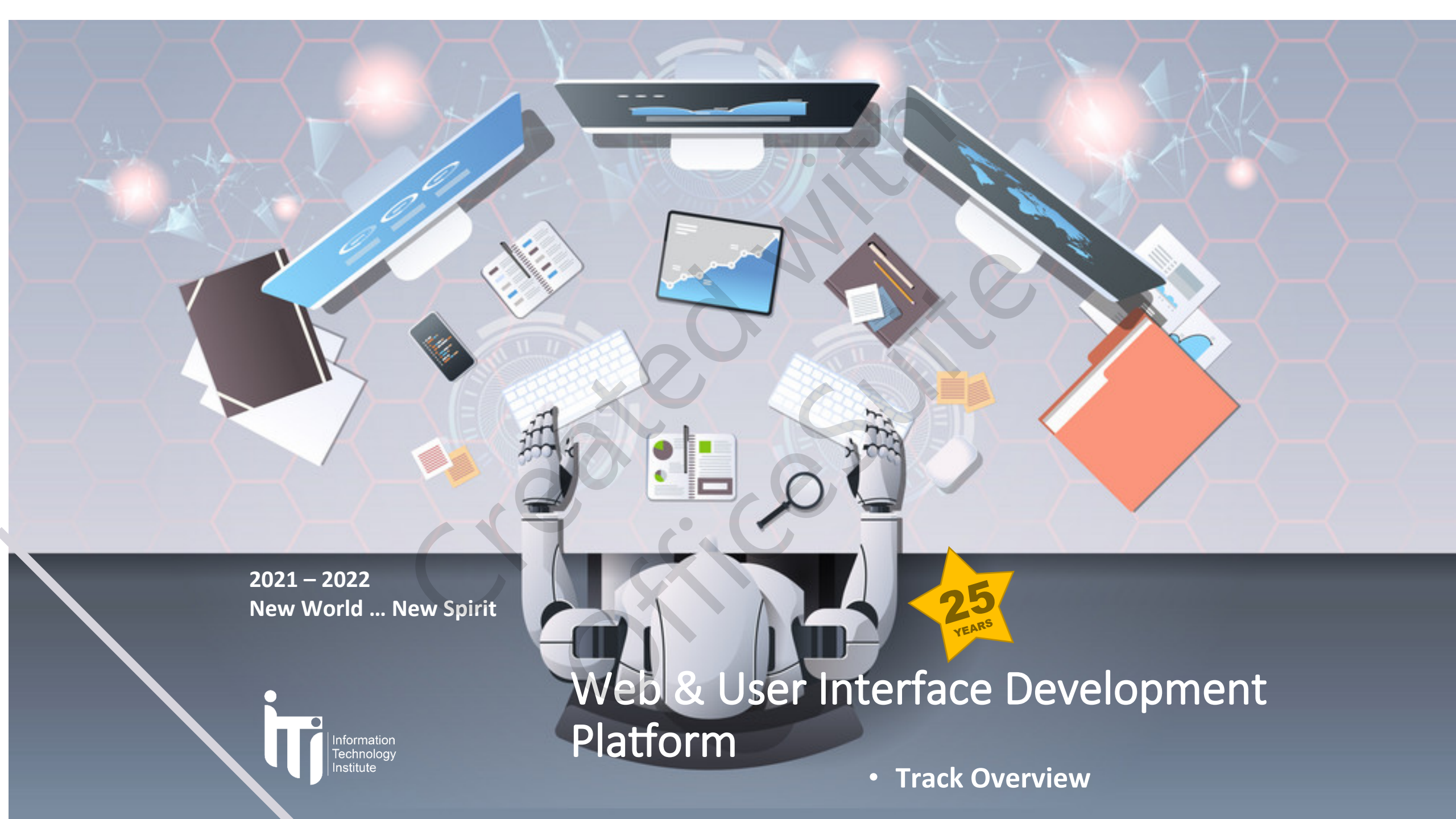
MEAN Stack Development

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

SY06 – 16%

Microsoft Web Applications Development

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



2021 – 2022
New World ... New Spirit



Web & User Interface Development Platform

• Track Overview



Web & User Interface Development Platform Technical Road-Map

Before You Apply ...

“These topics will be discussed with you in the interviews”

- An Introduction to Programming by studying this course at Coursera “An Introduction to Programming” <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 in the following links <http://www.maharatech.gov.eg>
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<https://www.khanacademy.org/computing/computer-programming/html-css>
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Selection Process ...

PH01 – Phase 1

Aptitude Test | IQ Test | EQ Test | English Test

PH02 – Phase 2

Applicants who pass the above exams will be promoted to technical and interpersonal skills interview. Those applicant would be discussing with the interviewing panel their pre-work in a one to one interview

PH03 – Phase 3

A second level interview would be held with ITI board members

Delivery Approach ...

Learning Journey in
Track follows:

20% Self-paced | 40% Online | 40% Guided Practices
Project Based Focused Journey

Your mentor supports throughout all the learning journey

Syllabus Overview ...

16% | Software Development Fundamentals
17% | MEAN Stack Development
29% | Frontend Web Development
12% | Software Design Essentials
4% | E-Business Marketing Concepts
16% | UI/UX Design Concepts & Methodologies
6% | SoftSkills

Graduate Profile ...

Full Stack Web Developer
Mean Stack Developer
Front-end Developer
UI/UX Developer

Web & User Interface Development Platform Technical Road-Map

SY01 – 16%

Software Development Fundamentals

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

SY02 – 16%

UI/UX Concept and Technologies

- UI/UX design Principles
- Design Thinking
- Adobe Photoshop Web
- Adobe Illustrator Web
- Adobe XD
- Design Elements and Prototype

SY03 – 12%

Software Design Essentials

- Agile Software Development Methodologies
- Devops
- Introduction to Software Engineering
- Object Oriented Analysis & Design using UML
- Unit Testing

SY04 – 29%

Frontend Web Development

- Client-Side Technologies
- HTML5 & CSS3
- jQuery Fundamentals
- Responsive Web Fundamentals
- Responsive Web Design Frameworks
- CSS Preprocessor
- Vue JS
- React JS

Product oriented approach that gives you the skills to build one of the following products:

Jumia
Swvl
Otlob
Booking

SY05 – 17%

MEAN Stack Development

- Angular Fundamentals
- Node.js Fundamentals
- Next JS
- Nest JS
- MongoDB
- Advanced JavaScript
- Relational Database
- ES.Next