Mobile Application Development Cross Platform

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

Program Admission Arrangements

Who May Apply?

- **Graduates of:**
  All University Graduates with prerequisites of basic programming skills.

Prerequisites

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

- **Introduction to Programming** https://www.udacity.com/course/c-plus-plus-nanodegree--nd213
- **Introduction to web Technologies** https://maharatech.gov.eg/course/view.php?id=36
- **Introduction to Database** Course: Database Fundamentals (maharatech.gov.eg)
- **Object-Oriented Programming (OOP) Using C++ :** https://maharatech.gov.eg/course/view.php?id=2206
- **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 internaltional **certficate** based on his track

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1 Programs Offered

☑ **Professional Training Program:**
- Mobile Cross Platform

☑ **Undergrads Summer Camps**

2 Industry/Academy Stakeholders

- Microsoft

3 Targeted Outcome

- **Employability**
  - ○ VOIS
  - ○ IBM
  - ○ Etisalat Misr
  - ○ Attijari wafa Bank
  - ○ Noon
  - ○ Sarmad
  - ○ Fawry
  - ○ Eva Pharma
  - ○ Link Development
  - ○ Deliotte
  - ○ Qoyod
  - ○ Giza System

4 Certifications

Flutter
ReactNative
Database

5 Graduates Job Profiles

React Native Developer
React Native Developer has a great blend of JavaScript and native platform skills, making them a useful resource for any team that needs to diversify its product across multiple platforms. They know when to pursue a fully native solution, and also when to use JavaScript to maximize code reuse and understandability.

Flutter Developer
Building multi-platform applications for Android and iOS using the Flutter development framework of Google. Writing clear and reader-friendly code using tools like Dart.

MEAN Developer
determining the structure and design of web pages, striking a balance between functional and aesthetic design, and ensuring web design is optimized for smartphones.
Using **M**ongo, **E**xpress, **A**ngular, **N**ode

MERN Developer
MERN developer will be responsible for writing reusable, testable, and efficient code and developing and designing front end web applications Using **M**ongo, **E**xpress, React and **N**ode.

Xamarin Developer
Well-educated Xamarin Developer who is developing the whole life cycle of mobile applications on the main mobile platforms Android, IOS, and Windows from Ideation, prototyping, Application Architecting, and Testing to publishing the applications on different stores.

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Program Content Structure

975 Hours

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
- Object Oriented Analysis & Design using UML
- Secure Coding Essentials
- Agile Software Development Methodologies
- Source Control

.Net Core & Web Application Development
- Visual C# .Net
- Language Integrated Query(LINQ)
- Entity Framework 6 & Core
- Advanced SQL Server Programming
- ASP .Net Web APIs
- Introduction to DevOps
- IIS Administration
- Introduction to MS Azure
- Universal Windows Platform
- MVVM Light Toolkit Fundamentals

Soft Skills Courses
- 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)

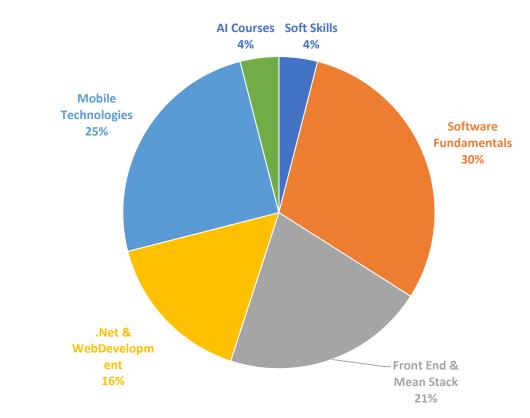### Mobile Applications Development Concept and Technologies
- React Native
- Dart Fundamentals
- Flutter Development
- Xamarin Development
- Firebase

Front End & Mean Stack
- Client-Side Technologies
- HTML5 & CSS3
- Responsive Web Fundamentals
- jQuery Fundamentals
- Angular Fundamentals
- JavaScript Design Patterns
- Node.js Fundamentals
- MongoDB
- ES.Next
- Material UI for React.js
- Next.js Fundamentals
- Advanced JavaScript
- JavaScript Unit Testing
- Type Script
- React.js Fundamentals

AI Courses
- Introduction to Generative AI and prompt engineering
- AI-powered Coding Assistant tools
- Developing Gen-AI-based software

AI Courses 4%

Soft Skills 4%

Mobile Technologies 25%

Software Fundamentals 30%

Mobile Technologies 25%

.Net & WebDevelopment 16%

Front End & Mean Stack 21%