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HOME ABOUT ITI SERVICES BRANCHES NEWS

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ITI In Brief

The Information Technology Institute (ITI) was established back in 1993 and became one of the MCIT's affiliates in 2005. Its main mission revolves around ICT human capacity development. For over 30 years, ITI has kept updating its training portfolio through continuous monitoring of future global tech trends, as well as the country's national and mega projects. As a result, it sustained an 85% employment percentage for its graduates. ITI programs served thousands of Egyptian youth from different Egyptian governorates, who graduated from different academic backgrounds, thanks to the rich programs that built on their academic experience leveraging their future employment opportunities. These programs include development, content design, game development, Geographic Information System, media and animation, cloud, security, data analytics, among others. ITI has a wide network of relations with industry and academia, empowering its curriculum and helping in reaching out talents in most of Egypt's universities and governorates.

mission vision values

Supporting Egyptian youth to A Reference Hub in Developing ICT People Develop Countries... We improve their career opportunities Professional Talents. Develop PEOPLE

by developing their skills and

p professionalism E Elation

preparing them for highly in-

demand jobs, and related vast o openness p passion

technologies to fulfill today's needs,

I loyalty E Extra Mile

and tomorrow's forecast.

Affiliation

The MCIT strategy is to develop the ICT infrastructure and industry, transforming Egypt into a global digital hub. Information Technology Institute works to empower Egypt's youth with the tools and skills needed to develop and live in a knowledge-based society, while using the ICT tools to boost the country's competitiveness, productivity and the national, regional & international development.

- Dr. Amr Talaat, Minister Of Communications And Information Technology -

Chairman Message

Being committed to develop highly skilled and well-trained cadres who are able to effectively contributing to our country's development and with around 30 years in the field of ICT capacity development, ITI always keeps an eye on the accelerated market needs, engaging the industry key players and reflecting continuous changes on our designed programs. Thus, enabling ITI to scale up its services reaching our more passionate learners all over Egypt.

- Dr. Heba Saleh, ITI Chairwoman -

Meet The Leaders

Amr El Shafey Mohamed Hanafy Ahmed Lotfy Sherif Sharaf

Chairman Assistant for Training Chairman Assistant for Quality Intensive Training Program Professional Training Program

and Projects

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ITI Founders

Former ITI Founders

Dr. Hisham El-sherif Dr. Nabil Saied

Founder and Former Director of The Former ITI Chairman

Information and decision support center

Dr. Nabil El Nady Dr. Mohamed Salem

Former Deputy of The Information and Former Minister of Communications and
decision support center Information Technology

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Branches

Over 30 years, ITI has kept updating its training portfolio thru continuous

News

monitoring for the future global tech trends, as well as the country's national

Contact us

and mega projects, hence; sustaining its graduates' employment percentage

to 85 prior their graduation.

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Policy

Information Technology Institute (ITI)

Services

What services does the Information Technology Institute (ITI)
provide?

It provides different services at different levels:

1. Post Graduates Programs.
2. Under Graduates Programs.
3. Tech-Business Programs.
4. Tech Ambassadors Programs.
5. Juniors Programs.
6. Wazeefa Tech Initiative.
7. Maharah Tech Platform.

What are the types of programs in the Post Graduates service?

Post Graduates Programs include three programs:

1. Professional Training Program - (9 Months):

- o Offers a comprehensive scholarship for Egyptian university graduates who have completed their studies within the past five years.

- o Bridges the gap between the skills of talented graduates and the demands of the job markets.

- o Collaborates with industry partners to design over 30 different tracks.

- o Rigorous screening process with only 10% acceptance rate.

2. Intensive Code Camp - (ICC) (4 Months):

- o Provides tracks aligned with job market needs in fields like Web Development, Digital Marketing, Cyber Security, and more.

3. Military Training Initiative - (Military) (3 Months):

- o Collaboration between the Ministry of Communications and

- Information Technology and the Ministry of Defense.o Trains army recruits with an Engineering Background on

Information Technology.

- o Aims to train more than 500 army recruits in Cybersecurity.

Can you give me more details about the Professional Training
Program?

Fully Funded Scholarship

16k+ Graduates

100+ Job Profiles

9 Months Duration

Eligibility:

Gender: Males and Females.

Nationality: Egyptian.

Military Service: Exempted, Deferred, Completed, or Unknown.

Educational Degree: Bachelor Degree.

Graduation Year: Last 5 years of graduation.

Can you give me more details about the Intensive Code Camp?
Fully Funded Scholarship

99 Job Profiles

15k Graduates

4 Months Duration

Eligibility:

Gender: Males and Females.

Nationality: Egyptian.

Military Service: Exempted, Deferred, or Completed.

Educational Degree: Bachelor Degree.

Graduation Year: Last 10 years of graduation.

Grade: Fair.

Can you give me more details about the Military Training Initiative?
Fully Funded Scholarship

1k+ Graduates

3 Months Duration

Eligibility:

Gender: Males.

Nationality: Egyptian.

Military Service: All military statuses are allowed.

Educational Degree: All education degrees are allowed.

What are the types of programs in the Under Graduates service?
Summer Training Program (Early Career Build-Up)

Can you give me more details about the Summer Training Program?
Fully Funded Scholarship

45k Graduates

1 Month Duration

Eligibility:
Gender: Males and Females.

Nationality: Egyptian.

Military Service: All military statuses are allowed.

Educational Degree: Bachelor Degree.

Tell me about the Tech Ambassadors Program
Fully Funded Scholarship

3 Job Profiles

250 Graduates

2 Months Duration

Eligibility:
Gender: Males and Females.

Nationality: Egyptian.

Military Service: Required, Completed, Deferred, or Exempted.

Educational Degree: Bachelor Degree.

Graduation Year: Last 10 years of graduation, At least 3 years from

graduation.

Grade: Good.

What is the Wazeefa Tech Initiative?

Qualifies and hires fresh graduates for specialized jobs in IT.

Training costs are paid in long installments without additional fees if

employed.

Supervised by NTI and ITI in collaboration with Nasser Social Bank.

What are the admission conditions for Wazeefa Tech?

Must be Egyptian and hold a bachelor's degree or equivalent.

Must be a fresh graduate who earned their degree within the last 5

years.

Must pass the assessment to join the initiative.

Must be unemployed.

What are the admission steps for Wazeefa Tech?

1. Review the selected track to match the bachelor's degree.
2. After registering, receive an email with the English assessment link.
3. Pass the assessment with an 85% score and the HR interview.
4. If accepted, data is sent to MCIT and bank procedures are started.
5. Training period of 6 months followed by 3 months of the hiring period.

What is Maharatech?

An online learning platform offering high-quality courses authored by

ITI.

All videos are produced by IT experts.

What are the available tracks in the Professional Training Program?

Digital IC Design.

Industrial Automation.

Embedded Systems.

2D Animation and Motion Graphics.

3D Art.

Game Art.

Game Programming.

VFX Compositing.

Cloud Architecture.

Cyber Security.

System Administration.

Telecom Application Development.

Civil Engineering Informatics.

Data Management.

Data Science.

GIS.

ERP Consulting.

Software Testing & Quality Assurance.

AI and Machine Learning.

Cloud Platform Development.

Enterprise & Web Apps Development (Java).

Native Mobile Apps Development.

Open Source Apps Development.

Professional Web Development.

Web and User Interface Development.

System Development.

What are the available tracks in the Intensive Code Camp?
2D Graphic Design.

E-Learning.

Frontend & Cross-Platform Mobile Development.

Full-stack Web Development Using .Net.

Full-stack Web Development Using MEARN.

Full-stack Web Development Using PHP.

Full-stack Web Development Using Python.

GIS (Geographic Information Systems).

Motion Graphics.

Power BI Development.

Social Media Marketing.

Software Engineering Fundamentals.

Software Testing.

Systems Administration.

UI/UX Design.

Cyber Security Associate.

Branches

What are the available branches in the Information Technology Institute (ITI)?

Available branches are:

Smart Village (Head office)

New Capital

Cairo University (creativa) (يمقر عادبا زكرم)

Alexandria

Assiut

Aswan (creativa) (يمقر عادبا زكرم)

Beni Suef (creativa) (يمقر عادبا زكرم)

Fayoum (creativa) (يمقر عادبا زكرم)

Ismailia

Mansoura (creativa) (يمقر عادبا زكرم)

Menofia (creativa) (يمقر عادبا زكرم)

Minya (creativa) (يمقر عادبا زكرم)

Qena (creativa) (يمقر عادبا زكرم)

Sohag (creativa) (يمقر عادبا زكرم)

2D Animation & Motion Graphics

Executive Summary

2023–2024Content

Program 1. Who May Apply?

Admission 2. Prerequisites

3. Selection Process

Arrangement

4. Delivery Approach

5. Student's Deliverables

Market Needs 1. Programs Offered

and Stakeholders 2. Industry/Academy Stakeholders

3. Targeted Outcome

4. Certification

5. Graduates Job Profiles

Services & 1. Professional Training Program

Content 2. Intensive Code Camps

3. Undergrads Summer Camps

4. Online Services

2Program Admission Arrangement

Who May Apply?

• Graduates of:

o "All graduates from all colleges of higher education - starting from a grade of 'Pass' and above."

Prerequisites

"We highly recommend that candidates review the following courses prior to applying for admission to our program."

"The courses cover multiple points in the specialization areas of the track."

• Pixar in a Box <https://www.khanacademy.org/computing/pixar>

• Creative Cloud tutorials <https://helpx.adobe.com/creative-cloud/tutorials-explore.html>

• Introduction to motion design <https://www.schoolofmotion.com/courses/the-path-to-mograph>

• Toon Boom <https://learn.toonboom.com/>

• 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

IQ Test | English Test | Problem Solving Test

• PH02 –Phase 2

Applicants who pass the above exams will be promoted to technical and interpersonal skills interview.

Those applicants would be

discussing with the interviewing panel their pre-work - "Before You Apply" - in a one to one interview

• PH03 –Phase 3

A second level interview would be held with ITI board members

Delivery Approach

• 50 % face to face Learning| 50 % Online

• Common Hardware

• Common Software

Students' Deliverables

• Each student must deliver at least ONE freelancing job and an international certificate based on his track

32D Animation & Motion Graphics

4 Certifications

1 Programs Offered • Adobe Certifications for Photoshop, Illustrator, InDesign, Professional Training Program: Premiere Pro, After Effects, Animate

- 2D Animator.

- Illustration Artist. 5 Graduates Job Profiles

- Motion Graphic Designer.

- 2D Animator. :

- Concept Artist. As a 2D Animator with a focus on traditional and cut-out animation, you would use hand-drawn and digital techniques to

- Character Designer. create frame-by-frame animation or pre-made pieces of artwork to create animations. You would need to have a strong

- Environment Designer understanding of animation principles such as timing, spacing, and weight to create convincing movements.

Additionally, you would need to be proficient in software like Adobe Animate or Toon Boom to bring your designs to

Intensive Code Camps:

life.

- Motion Graphic Designer.

- Illustration Artist.

- Illustration Artist. An Illustration Artist creates visual illustrations for various media, using traditional and digital techniques to bring their

- 3D Motion Graphic Designer designs to life. They need strong drawing and painting skills, as well as a good understanding of composition, color

theory, and visual storytelling to create effective and engaging artwork.

Undergrads Summer Camps

- Motion Graphic Designer:

Online Services (MaharaTech, ITI Tech Leap

As a Motion Graphic Designer, you would use Cinema 4D to create 3D models, animations, and visual effects for

2 Industry/Academy Stakeholders various media. You would need to have a strong understanding of 3D modeling, lighting, and animation principles to

create convincing and engaging content. Additionally, you would need to be proficient in software like After Effects to

integrate your 3D designs into your motion graphics projects.

- Folk Studio production • Concept Artist.

- Samaka Studio • Mercury visual As a Concept Artist, your job is to create visual concepts for various media, including video games, films, and

- Tree Studio solutions animation. You work closely with the project team to develop and refine these concepts and use software tools

like Photoshop and Procreate to create your designs. You need strong drawing and painting skills as well as a good

- The Crew

understanding of composition, color theory, and visual storytelling to succeed in this role.

- Trend VFX

- Environment Designer

- Concave art

As a Character Designer, your job is to create and design characters for various media, including video games,

3 Targeted Outcome

animation, and comics. You work closely with the project team to develop characters that align with the project's goals

and use software tools like Photoshop, Procreate, and Sketchbook to bring your designs to life. You need to have a

- Employability

strong understanding of anatomy, form, and color theory to create compelling and memorable characters.

o Folk Studio o Aroma Graphics • Character Designer.

- o Samaka Studio
- o Umbrella studio
- A Character Designer creates and designs characters for various media, using software tools
- o Tree Studio
- o Monkeys | Visual like Photoshop and Procreate to bring their designs to life. They need a strong understanding of anatomy, form,
- o Mercury visual Effects and Animation and color theory to create memorable and appealing characters.
- solutions
- o Gemini studio • 3D Motion Graphic Designer

As a 3D Motion Graphic Designer, your job is to create visually appealing and engaging 3D animations and graphics

- o Trend VFX
- o Clear pictures

for various media using software tools like Cinema 4D, Maya, and Adobe After Effects. You need a strong

- o Squids VFX
- o Blue Monk

understanding of 3D modeling, lighting, and animation principles to create effective designs.

- o The Crew
- o Concave art

production

9-Month Professional Training Program

52D Animation and Motion Graphics

981 Hours

Program Content Structure

Video & Life Skills Film Making

Film Making for Animation

Sound 7% for Motion

Editing graphics

- Cinematography: Color Theory and Light 2D Motion Graphics

5% 7% ART &

- Cinematography: Composition Theory • After Effect Fundamentals Design
- Film language and Directing • Introduction to Motion Graphics 17%
- Script Writing • Advanced Motion Graphics
- Storyboard Fundamentals for Animation

2D Animation 2D

Animation

ART & Design • 2D Animation Portfolio-Making 27%

- 2D Animation Tools
- Art History
- Animation: 12 Principles illustration
- CG Introduction
- Animation: Acting Techniques
- Anatomy
- Animation: Body Mechanics 14%
- Character Design for Animation
- Compositing for 2D Animation
- Digital Painting for Animation
- Sketching 2D Motion 3D Motion
- Environment Design for Animation Graphics Graphics

Video & Sound Editing

14% 9%

- Sound Editing and Mixing
- Video Editing

Illustration Techniques

- Vector Art & Design Life Skills Courses
- Digital Art Styles and Techniques
- Communication Essentials for Professionals
- Vector Illustration Fundamentals
- High Impact Presentations
- Job Seeking Skills
- Professional Demeanor (Workshop)

3D Motion Graphics

- Cinema 4D Foundation
- 3D Motion Graphics

63D Art

(3D Generalist)

(3D Animation)

(FX Dynamics And Simulation)

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Services & 1. Professional Training Program

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"The courses cover multiple points in the specialization areas of 3D Art tracks."

• Pixar in a Box <https://www.khanacademy.org/computing/pixar>

• Autodesk Maya 101 Tutorials : <https://www.youtube.com/playlist?list=PLD8E5717592CF5C26>

• Maya Tutorials by LinkedIn Learning, with Lynda.com content :

<https://www.autodesk.com/support/technical/article/caas/tsarticles/ts/dVnQqbvL8wT37prRC3Y8d.html>

• Animation Mentor :Free Maya Animation Basic Tutorials:

<https://www.animationmentor.com/free-maya-basic-animation-tutorials/>

• GET STARTED WITH ZBRUSH <https://pixologic.com/zclassroom/>

• Getting Started | Learning Houdini Learning Path – SideFX:

https://www.sidefx.com/learn/getting_started/

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

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Delivery Approach

• 50 % face to face Learning| 50 % Online

• Common Hardware

• Common Software

Students' Deliverables

• Each student must deliver at least ONE freelancing job and an international certificate based on his track

3D Art Tracks 1-(3D Generalist)

4 Certifications

Programs Offered • Autodesk Maya Certified User

1

- Autodesk Maya Certified Professional

Professional Training Program:

- 3D Generalist
- 3F Modeler 5 Graduates Job Profiles
- 3D Character artist

3D Generalist:

- 3D Environment artist

A 3D generalist is a versatile artist with expertise in various aspects of 3D production. They possess

- Character FX artist a wide range of skills, including modeling, texturing, lighting, animation, and rendering. A 3D

- Look Development artist generalist is proficient in multiple software packages and can handle different tasks throughout the

Intensive Code Camps: production pipeline.

- 3D Environment Artist 3D Modeler:

- 3D Character Artist A 3D modeler specializes in creating digital models of objects, characters, or environments. They

focus on accurately translating 2D concepts or real-world references into three-dimensional

Undergrads Summer Camps

representations. 3D modelers use their artistic skills to shape, sculpt, and add detail to the models,

Online Services (MaharaTech, ITI Tech Leap

ensuring they meet the project requirements.

3D Character Artist:

2 Industry/Academy Stakeholders

A 3D character artist specializes in creating detailed and realistic characters. They bring characters to life by sculpting their forms, adding textures and colors, and rigging them for animation. Character artists have a strong understanding of anatomy, proportions, and artistic techniques to create

- Autodesk • Concave art production visually appealing and expressive characters.

- Mercury visual solutions

3D Environment Artist:

- Trend VFX

A 3D environment artist is responsible for creating digital environments and backgrounds for various

- Squids VFX

media and film productions. They design and create immersive settings, including landscapes,

- The Crew

buildings, and props, to provide a realistic and engaging backdrop for the story. Environment artists pay attention to lighting, composition, and detail to bring the environment to life.

3 Targeted Outcome Character FX Artist:

A character FX artist focuses on creating dynamic effects and simulations related to characters.

- Employability

They work on effects such as hair, fur, cloth, or dynamic simulations to enhance the realism and

o Mercury visual o Umbrella studio movement of characters. Character FX artists collaborate with other team members to ensure that

solutions o Monkeys | Visual the effects integrate seamlessly into the overall visual presentation.

o Trend VFX Effects and Animation Look Development

o Squids VFX o Gemini studio Artist: A look development artist is responsible for establishing the visual style and appearance of

o The Crew o Clear pictures assets, characters, or environments. They work on defining the materials, textures, shading, and

o Concave art o Blue Monk lighting to achieve a specific look and feel. Look development artists play a crucial role in creating

production the desired atmosphere and mood for the project.

o Aroma Graphics3D Art Tracks 2-(3D Animation)

4 Certifications

Programs Offered • Autodesk Maya Certified User

1

- Autodesk Maya Certified Professional

Professional Training Program:

- 3D Animator

- 3D Rigger (character TD) 5 Graduates Job Profiles

- Layout Artist

3D Animator:

Intensive Code Camps:

A 3D Animator is responsible for bringing characters, objects, and environments to life

- 3D Rigger (character TD) through movement and performance. They use their understanding of principles of

Undergrads Summer Camps animation to create realistic and expressive motions. They work closely with the director

Online Services (MaharaTech, ITI Tech Leap and follow the storyboard and animatic to create dynamic and engaging animation sequences.

3D Rigger (Character TD):

A 3D Rigger, also known as a Character Technical Director (TD), is responsible for creating the skeletal structure and controls that allow characters to move and deform properly. They work closely with animators to ensure that characters can be posed and

2 Industry/Academy Stakeholders

animated seamlessly. They also handle rigging aspects such as facial rigging, muscle systems, and advanced deformations.

- Autodesk • Concave art production

Layout Artist:

- Mercury visual solutions

A Layout Artist is responsible for setting up the camera angles, composition, and staging

- Trend VFX

of shots in a scene. They work closely with the director and storyboard artists to plan and

- Squids VFX

create the initial layout or blocking of the shots. Layout artists focus on capturing the

- The Crew

desired storytelling and visual elements, ensuring continuity and smooth transitions between shots.

3 Targeted Outcome

- Employability

o Mercury visual o Umbrella studio

solutions o Monkeys | Visual

o Trend VFX Effects and Animation

o Squids VFX o Gemini studio

o The Crew o Clear pictures

o Concave art o Blue Monk

production

o Aroma Graphics3D Art Tracks 3-(FX Dynamics and Simulation)

4 Certifications

Programs Offered • Autodesk Maya Certified User

1

- Autodesk Maya Certified Professional

Professional Training Program:

- FX and Dynamics Artist

- 3D Procedural Modeler 5 Graduates Job Profiles

- 3D TD Artist

FX and Dynamics Artist:

- Character FX Artist

An FX and Dynamics Artist specializes in creating visual effects and dynamic simulations for

Intensive Code Camps: film and visual effects (VFX) productions. They use their expertise in software like Maya and

Undergrads Summer Camps Houdini to generate realistic and engaging effects such as explosions, fire, smoke, water, and

Online Services (MaharaTech, ITI Tech Leap particle systems. FX and Dynamics Artists work closely with the VFX supervisor and other

team members to ensure that the effects seamlessly integrate into the final shots and

enhance the overall visual impact of the project.

3D Procedural Modeler:

A 3D Procedural Modeler is responsible for creating complex and detailed 3D models using procedural techniques. They use software like Maya and Houdini to generate models using

2 Industry/Academy Stakeholders

algorithms, scripts, and procedural workflows. Procedural modeling allows for the efficient creation of intricate and customizable models, such as natural landscapes, urban

environments, or organic structures. 3D Procedural Modelers work closely with the art

- Autodesk • Concave art production

director and production team to ensure the models meet the artistic and technical

- Mercury visual solutions

requirements of the project.

- Trend VFX

- Squids VFX

3D TD Artist:

- The Crew

A 3D TD (Technical Director) Artist combines artistic and technical skills to develop and implement tools, workflows, and pipeline solutions for the production team. They work with

3 Targeted Outcome software like Maya and Houdini to create custom scripts, tools, and plugins to streamline and

optimize the production process. 3D TD Artists collaborate closely with artists, animators, and

- Employability

other technical team members to troubleshoot issues, improve efficiency, and ensure smooth

o Mercury visual o Umbrella studio production workflows.

solutions o Monkeys | Visual

o Trend VFX Effects and Animation Character FX Artist:

o Squids VFX o Gemini studio A Character FX Artist focuses on creating and enhancing the visual effects related to

o The Crew o Clear pictures characters in film and VFX projects. They use software like Maya and Houdini to create

o Concave art o Blue Monk dynamic simulations for character elements such as hair, fur, cloth, and fluids. Character FX

production Artists work closely with the character and rigging teams to ensure that the effects seamlessly

o Aroma Graphics integrate with the character's movements and enhance the overall visual fidelity and realism

of the characters.9-Month Professional Training Program

73D Art Tracks

1-(3D Generalist)

972 Hours

Program Content Structure 3D Film Making

Character Fundament

Life Skills

creation als

Courses

Film Making Fundamentals Art Essentials 15% 10%

7%

- Cinematography: Composition Theory • Art History
- Cinematography: Color Theory and Light • Sketching 3D General
- storyboard fundamentals • Digital painting Fundament
- Script Writing • Character Design for 3D Production Look als
- Sound editing and mixing • Environment Design for 3D Production Developme 10%
- anatomy illustration
- Film language and Directing nt
- Video Editing Fundament

Hard Surface Modeling and Character
als

Environment Creation FX

Life Skills Courses • Hard Surface Modeling 23% Hard 5%

Surface

- Communication Essentials for Professionals • UV Essentials
- Modeling

- High Impact Presentations • procedural modeling
- and

- "Progressive Teamwork and Leadership • Environment Creation techniques Art
- Environmen

Skills(Workshop)" • Matte Painting Essentials for 3D Production Essentials

t Creation

- "Professional Demeanor(Workshop)" Look Development Fundamentals 16% 14%

- "Best Practices For Remote

- Lighting Fundamentals

Working(Workshop)"

- Texturing Fundamentals for 3D Generalist

- Job Seeking Skills

- Shading Fundamentals

- Freelancing For Digital Arts

- "Rendering Fundamentals "

- Look Development Techniques

3D General Fundamentals • Compositing Fundamentals Job Profile

- CG Introduction • advanced texturing techniques • 3D Generalist

- Introduction to Maya • Unreal Essentials • 3F Modeler

- 3D Portfolio Making • 3D Character artist

3D Character creation

- Rigging fundamentals • 3D Environment artist

- Digital Sculpting • Character FX artist

Character FX • Stylized character sculpting

- Look Development artist

- Advanced characters sculpting

- characters Grooming

- Animals and creatures sculpting

- Characters clothes creation

- Human Anatomy sculpting

83D Art Tracks

2-(3D Animation)

972 Hours

Program Content Structure

Film

Programin

Rigging

Making

g

Fundament

Film Making Fundamentals 3D Animation Fundamentals als essentials Fundament Life Skills
for als Courses

- Cinematography: Composition Theory • 3D Animation Essentials 11% Character 10% 7%
- Cinematography: Color Theory and Light • Animation Basics

TD...

- storyboard fundamentals • Body Mechanics Art
- Script Writing • Advanced Body Mechanics and Pantomime Acting Essentials
- Sound editing and mixing • Introduction to Acting 4%
- Film language and Directing • Advanced Acting
- Video Editing • Creature Animation
- Advanced Creature Animation
- Polishing and Portfolio

Life Skills Courses

- Animation Match Moving
- Communication Essentials for Professionals • Poses Sketching 3D Art
- High Impact Presentations Essentials
- Job Seeking Skills Rigging Fundamentals 20%
- Professional Demeanor (Workshop)
- Introduction To Rigging 3D
- Freelancing For Digital Arts
- Character Rigging Animation
- Facial Rigging Fundament

Art Essentials

- Assets and Mechanical Rigging als
- Art History • Advanced Rigging Applications 41%
- Digital painting

Programing essentials for Character TD

3D Art Essentials • Introduction To Programing With Python Job Profile

- CG Introduction • Python essentials • 3D Animator
- 3D Rigger (character TD)
- Introduction to Maya
- maya fundamentals for 3D Animation • Layout Artist
- Introduction Digital Sculpting
- Texturing Essential for 3D Animation
- Rendering fundamentals for 3D

Animation

- UV Essentials for 3D Animation

93D Art Tracks FX Dynamics and Simulation

3-()

1050 Hours

Program Content Structure

FX Look Film

Developme Making

Film Making Fundamentals Life Skills

nt Fundament

FX Dynamics and Simulation fundamentals Courses

- Art History Essentials als

5%

- Sound editing and mixing • FX Destruction essentials 16% 11%
- Film language and Directing • Liquids and FLUIDS
- Script Writing • Particals essentails - FX
- Cinematography: Composition Theory • Procedural Modeling - FX TD for FX 3D
- Cinematography: Color Theory and Light • PYRO FX essentials - FX 12% Essentials

- Rigid body -RBD simulations - FX
 - storyboard fundamentals 15%
 - FX application
 - Video Editing
 - FX Portfolio-Making
- FX

Life Skills Courses TD for FX Dynamics
and

- Communication Essentials for Professionals • Introduction To Programing With Python - FX
- Simulation Character
- High Impact Presentations • Python essentials - FX
- fundamenta FX and TD

- Job Seeking Skills • Math for FX Artists Is 12%
 - Professional Demeanor (Workshop)
- 29%

3D Essentials FX Look Development Essentials

- CG Introduction • Lighting and Rendering essentials for FX
- Introduction to Maya • Texturing Essentials
- Maya fundamentals for FX • Shading Fundamentals For FX Job Profile
- Introduction to houdini • FX and Dynamics Artist
- Match moving for FX • 3D Procedural Modeler

Character FX and TD • 3D TD Artist

- Character FX Artist
- Characters Grooming
- Cloth simulation
- Crowd Simulation
- Rigging Fundamentals

10Architecture, Engineering and

Construction Informatics

(AEC Informatics)

formerly,

Civil Engineering Informatics

(CEI)

Executive Summary

2023–2024Content

Program 1. Who May Apply?

Admission 2. Prerequisites

3. Selection Process

Arrangement

4. Delivery Approach

5. Student's Deliverables

Market Needs 1. Programs Offered

and Stakeholders 2. Industry/Academy Stakeholders

3. Targeted Outcome

4. Certification

5. Graduates Job Profiles

Services & 1. Professional Training Program

Content

2Program Admission Arrangement

Who May Apply?

- Graduates of: All University Graduates with prerequisites of Bachelor's degree in
 - o Architectural Engineers Engineering discipline related to AEC Industry (Architectural, Civil, Electrical, and Mechanical). Applicants must have a first degree from a
 - o Civil/Structural Engineers
- recognized university or institution of higher education or provide

o Mechanical Engineers

documentation indicating that they will earn such a first degree before

o Electrical Engineers

enrolment in the 9-month program. Admission Requirements for

o Plumbing Engineers Students vary depending on the student's area of study.

Prerequisites

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

- Applicants must have basic knowledge of computer programming. and using AEC-related CAD/BIM authoring tools.

- Applicants must have proven academic/professional experience in the field of CAD/BIM for AEC Industry.

Selection Process

- PH01 – Phase 1

IQ Test | English Test | Problem Solving Test

- PH02 – Phase 2

Applicants who pass the above exams will be promoted to technical and interpersonal skills interview.

Those applicants would be

discussing with the interviewing panel their pre-work - "Before You Apply" - in a one to one interview

- PH03 – Phase 3

A second level interview would be held with ITI board members

Delivery Approach

- 50% face to face Learning| 50 % Online (preferably to be 100% offline in the upcoming intake, if ITI room capacity permits).

- Common Hardware

- Common Software

Students' Deliverables

- Each student must deliver at least ONE freelancing job and optionally, a professional certificate based on his track.

3AEC Informatics Tracks

4 Certifications

- CAD/BIM Field: Variety of available Autodesk Certified Professional certificates.

Programs

- 1 - SWD Field: Variety of certified professional certificates for the studied tools.

Offered

Professional Training Program:

- NOTE: Certificates are not a program KPI, it is just a secondary measure

- AEC Informatics Specialist (formerly CEI

(not required for employability).

Specialist) – 9 Month Diploma

Intensive Code Camps:

Graduates Job Profiles

- BIM Automation Developer 5

- Job Profile 01 Engineering Informatics Specialist (9-Month Diploma – PTP)

Undergraduates Summer Camps Analyze requirements, define solution architecture and develop

"Scientific and Engineering

Online Services (Technical Awareness Software" solutions to meet the business needs of the Architecture, Engineering and Construction

Webinars) (AEC) Industry such as CAE, CAD, BIM, CIM, GIS and related systems.

Job Profile 02 BIM Automation Developer (3-Month Diploma – Intensive Training)

Automate the processes within the BIM project lifecycle by creating tailored solutions and customized Add-ins that enable collaboration and interoperability among heterogeneous

2 Industry/Academy Stakeholders

CAE/CAD/BIM tools. In addition, develop BIM-based software solutions that tackle real-world problems as they arise in the Architecture, Engineering and Construction (AEC) industry.

- Autodesk
- Trimble
- Bentley
- Esri
- Zamil EMS
- Elibre
- ASI
- AGECS
- Orascom Construction
- Orascom Development
- ...

3 Targeted Outcome

- Employability
- Awareness9-Month Professional Training Program

5AEC Informatics Specialist

950 Hours

Program Content Structure

CODE03

CODE02 Core Courses

: 10%

CODE01 Fundamental courses

:

- Scientific Programming with C/C++
- Operating Systems Fundamentals
- Scientific Programming with Python
- Computer Networks Fundamentals • Scientific Computing I - Scientific Software CODE01

40%

- Database Fundamentals Development
- Computer Programming I – Programming Fundamentals • Scientific Computing II - Numerical Tools &
- Computer Programming II – Object-Oriented Programming Algorithms
- Data Structures, Algorithms, and Complexity • Scientific Computing III - High-Performance
- Web Development I – Front-End Development Computing [Elective Workshop]

CODE02

- Web Development II – Back-End Development • Engineering Optimization

50%

- Software Testing and QA Fundamentals • Selected Topics in Engineering Informatics
- Computer Graphics I - Mathematics Foundation

CODE03 : Life Skills Courses • Computer Graphics II - Programming with OpenGL

- Computer Graphics III - Programming with WebGL
- Communication Essentials for Professionals • Building Information Modeling I – Fundamentals
- High Impact Presentations • Building Information Modeling II - Design Studio
- Job Seeking Skills • Building Information Modeling III - Development
- Progressive Teamwork (Workshop) Studio
- Professional Demeanor (Workshop) • Geographic Information Systems I – Fundamentals
- Best Practices For Remote Working (Workshop) • Geographic Information Systems II – Geodatabases
- Geographic Information Systems III - Development

Graduates Job Profiles • Artificial Intelligence Fundamentals

- Internet of Things Fundamentals [Elective Workshop]

Engineering Informatics Specialist

Analyze requirements, define solution architecture and develop “Scientific and Engineering Software” solutions to meet the business needs of the Architecture, Engineering and Construction (AEC) Industry such as CAE, CAD, BIM, CIM, GIS and related systems.

Certificates

N/A (Not Required for Employability)

Certificates are not a program KPI, it is just a secondary measure (not required for employability).

6AI and Machine Learning

Executive Summary

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and Stakeholders 2. Industry/Academy Stakeholders

3. Targeted Outcome

4. Certification

5. Graduates Job Profiles

Services & 1. Professional Training Program

Content

2Program Admission Arrangement

Who May Apply?

- Graduates of:
 - o Engineering
 - o Science (Computer Science, statistics and Mathematics)
 - o Computing and Informatics
 - o Computing and Artificial Intelligence
 - o Computing and Data Science

Prerequisites

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

Probability & Statistics for Machine Learning & Data Science

(<https://www.coursera.org/learn/machine-learning-probability-and-statistics>)

Data Structures and Algorithms (<https://www.coursera.org/specializations/data-structures-algorithms>)

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

IQ Test | English Test | Problem Solving Test

- PH02 –Phase 2

Applicants who pass the above exams will be promoted to technical and interpersonal skills interview.

Those applicants would be

discussing with the interviewing panel their pre-work -“Before You Apply”- in a one to one interview

- PH03 –Phase 3

A second level interview would be held with ITI board members

Delivery Approach

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

Students' Deliverables

- Each student must deliver at least ONE freelancingjob and an international AWS certificatebased on his track

3Infrastructure Tracks

4 Certifications

AWS Certified Machine Learning - Specialty Certification

Programs Offered

1

AWS Certified Cloud Practitioner Certification

Professional Training Program:

Microsoft Certified: Azure AI Engineer Associate

- AI Engineer
- ML Engineer
- Data Scientist

Intensive Code Camps:

Graduates Job Profiles

- EUI Egypt University of Informatics 5

Undergrads Summer Camps AI Engineer

Online Services (MaharaTech, ITI Tech Leap) An AI engineer is a professional who designs and develops artificial intelligence systems and technologies.

They are responsible for creating algorithms, analyzing data, and implementing machine learning models. AI

engineers typically have a background in computer science, mathematics, and programming, and are knowledgeable in areas such as machine learning, natural language processing, computer vision, and deep

learning. They work in a variety of industries, including healthcare, finance, and technology, and are responsible for creating AI systems that can make decisions, learn from data, and improve over time.

2 Industry/Academy Stakeholders ML Engineer

A Machine Learning (ML) engineer is a professional who develops and deploys machine learning systems and

technologies. They are responsible for designing, building, and deploying ML models that can analyze large

- Amazon • Datacamp

amounts of data and make predictions or decisions based on that data. ML engineers typically have a

- Microsoft

background in computer science, mathematics, and programming, and are knowledgeable in areas such as data preprocessing, feature selection, model selection, and hyperparameter optimization. They work in a

variety of industries, including healthcare, finance, and technology, and are responsible for creating ML systems that are accurate, efficient, and scalable. ML engineers also collaborate with data scientists and software engineers to integrate machine learning models into software applications and systems.

Data Scientist

3 Targeted Outcome

A data scientist is a professional who uses statistical and computational methods to analyze and interpret complex data sets. They are responsible for collecting, processing, and transforming raw data into

- Employability

meaningful insights that can be used to inform business decisions. Data scientists typically have a

- o Vodafone Egypt

background in mathematics, statistics, and computer science, and are knowledgeable in areas such as data

- o VOIS

mining, machine learning, and predictive analytics.

- o Orange

- o Deloitte

- o Etisalat Misr

- o Softx

- o Giza System

- o Valeo 9-Month Professional Training Program

5 AI & ML

969 Hours

Program Content Structure

Fundamental courses Core Courses

Soft Skills

- Track Orientation Workshop • Data Exploration, Preparation and Visualization 7%
- Linux Operating System • Machine Learning I : Supervised ML
- Introduction to programming using C

- Machine Learning II: Bayesian & Unsupervised ML
- Introduction to Object Oriented Programming
- Database Fundamentals (SQL , NOSQL) • Machine Learning III: Probabilistic ML and Generative
- Python for Machine Learning Model Core
- Data Structure and Algorithmic Workshop courses
- Deep Learning
- Linear Algebra for Machine Learning Fundamental 60%
- Probability and Statistics for Machine Learning • Time Series Analysis and Forecasting Courses...
- Reinforcement Learning
- Random Search Optimization

Soft Skills Courses

- Fundamentals of HPC
- Progressive Teamwork (Workshop) • Spark & PySpark for Big Data
- Professional Demeanor (Workshop)
- Cloud Infrastructure for Big Data
- Best Practices For Remote Working (Workshop)
- Communication Essentials for Professionals • Hadoop, Hive and Kafka for Big Data
- High Impact Presentations • Machine Learning in production
- Job Seeking Skills
- Advanced Computer Vision
- Recommender Systems
- Natural Language Processing using Deep Learning
- Programming challenges and Kaggle competition

6Data Science &

Data Management Tracks

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Services & 1. Professional Training Program

Content

2Program Admission Arrangement

Who May Apply?

Applicants must have a first degree from a recognized university or institution of higher education or provide documentation indicating that they will earn such a first degree before enrolment in the training program.

Prerequisites

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

- Database Fundamentals <https://maharatech.gov.eg/course/view.php?id=740>
- Career Talk in Data Analytics <https://maharatech.gov.eg/course/view.php?id=514>
- Good Fundamentals for Database and understanding the Data Analytics life cycle

Selection Process

- PH01 –Phase 1

IQ Test | English Test | Problem Solving Test

- PH02 –Phase 2

Knowledge base exam in the area of Data Analytics and Data Science

- PH03 –Phase 3

Applicants who pass the above exams will be promoted to technical and interpersonal skills interview.

Those applicants would be

discussing with the interviewing panel their pre-work -“Before You Apply”- in a one-to-one interview

- PH04 –Phase 4

A second level interview would be held with ITI board members

Delivery Approach

- 75% face to face Learning| 25 % Online

- Common Hardware: : Laptop with at least 16 GB of RAM and Core i7

Students' Deliverables

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

3 Data Analytics Tracks

4 Certifications

AWS Certified Machine Learning Specialty

Programs Offered

1 EMC Data Science and Big Data Analytics

AWS Certified Data Analytics Specialty

Professional Training Program: IBM Infosphere DataStage 11.5

- Data Science SAP Business Object

Databricks Certified Data Engineer Associate

- Data Management

Microsoft Certified: Power BI Data Analyst Associate

Intensive Code Camps:

- Data Analysis

Graduates Job Profiles

5

- Data Visualization

Data Scientist

- Data Analysis & Visualization

A Data Scientist is responsible for building predictive and descriptive analytics models and data

Online Services (MaharaTech, ITI Tech Leap)

analysis services to be used to mine an organization's data. Occupants of this role also models complex problems, discovers insights and finds opportunities through out the use of statistical, algorithmic, mining and visualization techniques.

They also validate the findings using experimental and iterative approaches. In addition to communicating the results and ideas to key decision makers and stakeholders in an understandable way.

2 Industry/Academy Stakeholders

Data Analyst

A Data analyst collect process and perform statistical analyses of data as well as identifying patterns

- Pluralsight • BBI Consultancy

and trends in data sets. They discover how data can be used to answer questions and solve

- Splunk • IBM

problems. A data analyst's job is to take that data and use it to help companies make better business

- SAS Institute

decisions.

Ultimately, the work of a data analyst provides insights to the organization that can transform how the business moves forward and grows successfully.

Big Data Analyst

3 Targeted Outcome Big Data Analyst is able to draw relevant information from the huge amounts of data being

processed every minute. They are Importing, Collecting, cleaning, converting and analyzing the data

- Employability to find insights and make conclusions. They are presenting data using graphs, charts and visualize

trends, patterns and correlation of complex data sets

- o Vodafone Egypt o CyShield
- o VOIS o CIB
- o BBI o Orange Egypt

Data Warehouse Architect / Modeler

- o EFG Hermes o Valeo

A Data Warehouse Modeler is responsible for developing, managing, and updating data models,

- o Etisalat Misr o Integrant

including the physical and logical models of data warehouses, data marts, staging areas, and

- o AAIB o IBM

operational data stores. In addition to supporting model management activities on the enterprise

- o Fawry

level.

- o AmanData Analytics Tracks

Graduates Job Profiles – Cont'd

5

Data Integration Specialist

A Data Integration Specialist is to design, build, map and maintain integration solutions based on integration needs from business users and load data across various sources into an organized and unified view. s/he also responsible for the monitoring of data flow between databases, servers and Cloud services to identify and implement the most suitable data integration architecture for the organization's needs.

Business Intelligence Analyst / Developer

A Business Intelligence Analyst / Developer is responsible for building reports and dashboards to help inform decision-making by converting data into information and facilitating insightful solutions to complex problems. In addition to translating the business requirements into technical specifications which are used to implement the required reports and dashboard.

Big Data Engineer

A Big Data Engineer have knowledge of data analysis, end-user requirements analysis, and business requirements analysis to develop a clear understanding of the business needs and to incorporate these needs into technical solutions.

S/He develop, maintain, test and evaluate big data solutions in organizations. They build a robust, fault-tolerant data pipeline that cleans, transforms, and aggregates unorganized and messy data into databases or data sources. As well as building large-scale data processing systems, also should be an expert in data warehousing solutions and should be able to work with the latest (NoSQL) database technologies.

Data Engineer

They are responsible for designing, maintaining, and optimizing data infrastructure for data collection, management, transformation, and access. They are in charge of creating pipelines that convert raw data into usable formats for data scientists and other data consumers to utilize. They also create optimal data warehouses, pipelines, and reporting systems to solve business problems.

9-Month Professional Training Program

6Data Science

942 Hours

Program Content Structure

Soft Skills

Fundamental courses Programming for Data Science Fundamental 5%
Courses

Operating Systems Fundamentals Python for Data Science 12%

R Programming for Data Science

Computer Networks Fundamentals

SAS Programming Essentials

Database Fundamentals

Object Oriented Paradigm Using Java

Red Hat System Administration I Core Courses

Introduction to Agile Software Development Methodologies

Business courses
Cloud Computing Fundamentals
Financial Accounting Data Warehousing Fundamentals and Data Modeling Core
Business Statistics
Enterprise Systems courses
Project Management Systems Thinking 83%
Introduction to Modeling & Operations Research
SQL & Scripting Courses
Machine Learning
Introduction to Oracle SQL and PL/SQL Advanced Machine Learning & Deep Learning
Oracle Advanced PL/SQL Optimization and Simulation Methods for Analytics
Visualization & Storytelling
Analytical SQL
Data Preparation & Preprocessing
Bash Shell Scripting
Time Series Analysis
Data Science & Big Data Tools Calculus for Data Science
Numerical Optimization for Data Science
Data Analysis using Excel
Linear Algebra for Data Science
Data Scientist Toolkit
Applied Analytics Using SAS Enterprise Miner
Soft Skills Courses
Apache Hadoop Essentials
Progressive Teamwork (Workshop)
Apache Spark Essentials
Professional Demeanor (Workshop)
Data Science and Big Data Analytics
Best Practices For Remote Working (Workshop)
Communication Essentials for Professionals
High Impact Presentations
Job Seeking Skills
7Data Management
900 Hours
Program Content Structure
Soft Skills
Analytics, Integration & BI Tools Fundamental
Fundamental courses 5%
Courses
Incorta Business Analytics
Operating Systems Fundamentals 12%
Informatica PowerCenter Basics
Computer Networks Fundamentals
IBM InfoSphere DataStage Essentials
Database Fundamentals
Business Objects Webi / Universe
Object Oriented Paradigm Using Java
Visualization & Storytelling using Tableau
Red Hat System Administration I
Business courses Big Data Tools & Techniques
Financial Accounting Apache Hadoop Essentials Core
Enterprise Systems Apache Kafka courses
Project Management Apache Spark Essentials 83%
Apache Scala Programming Language
SQL & Scripting Courses

Apache pig, Hive and Impala
 Introduction to Oracle SQL and PL/SQL Apache Airflow
 Oracle Advanced PL/SQL Apache HBase Essentials
 Analytical SQL Big Data Case Study
 Bash Shell Scripting
 SQL Tuning
 Soft Skills Courses
 No SQL using Mongo DB
 Progressive Teamwork (Workshop)
 Core Concepts Professional Demeanor (Workshop)
 Introduction to Agile Software Development Best Practices For Remote Working (Workshop)
 Methodologies Communication Essentials for Professionals
 Cloud Computing Fundamentals High Impact Presentations
 Data Warehousing Fundamentals and Data Modeling Job Seeking Skills
 Programming for Data Management
 Data Management with Python
 Advanced Java SE for Data Management
 8Embedded Systems
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 3. List of Courses and Conducted Hours
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 Program 1. Who May Apply?
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 Output 1. Expected Working Offers Size
 and KPIs
 2Program Admission Arrangement
 (we use same arrangement for PTP and Intensive Training Programs)
 • Electrical power Engineering,
 Who May Apply?
 • Electro-mechanical Engineering,
 Applicants must have a first degree from a recognized university or • Electronics Engineering,
 institution of higher education or provide documentation indicating that • Communication Engineering,
 they will earn such a first degree before enrolment in the training • Mechatronics Engineering
 program. • Computer Engineering.
 • computer science
 Prerequisites
 Applicants must have adequate knowledge in C concepts and have developed any software programs
 previously, and explored
 datasheets of any microcontroller.
 Selection Process
 • IQ Test | English Test | Problem Solving Test – Phase 1
 • Technical and soft skills interviews – Phase 2

- Final interview – Phase 3

Delivery Approach

- 70 % face to face - Learning| 30 % Online
- Hardware requirement: Laptop with at least 16 GB of RAM and Core i7 10th generation processor or equivalent AMD processor, SSD Hard

3 Embedded systems Market Needs and Stakeholders

The average salary for a Network Security Engineer in Egypt

1 5

Market Needs Certification

National and Multinational enterprises which are working ISTQB - NOT mandatory for all track in the business of Embedded system and smart solutions

6

for automotives, device drivers, and electrification are Graduates Job Profiles considered to be the main source of the market demand

Embedded Software/Firmware Engineer

for the job profiles we produce

Embedded Software/Firmware Engineer hold a specialized role throughout the software development cycle from planning and code writing to testing and maintaining software. Coding

2 Industry/Academy often involves highly specialized systems with specific requirements. Embedded Software

Engineers also create documentation for code, design and testing.

Stakeholders

Embedded Linux Engineer

Embedded Linux Engineer develop software and firmware for various devices and computer systems. In this career, you work on products like smart TVs, navigation devices, networking equipment, medical instruments, industrial systems, mobile phones, and other embedded systems that use Linux. In addition to writing and testing code for Linux-based device development, you may work to fix problems with existing systems that use a Linux platform or integrate new software into existing systems.

3 Embedded Automotive Engineer

Targeted Outcome

Design, implement and verify software based on AutoSAR architecture and methodology

Design, develop, and configure the full stack of AutoSAR components, implement and use most

Employability

popular Communication protocols in automotive industry.

Software Tooling Engineer

Customize and maintain tools, frameworks or plugins for software development;

4 Programs Offered

Build specific toolchains based on product and process requirements using customized state of the art tools;

Support the rollout and usage of new technologies;

PTP Create and update standards, guides and best practices for Software Development;

Intensive Training Cooperate with the product development teams and other stakeholders to design, integrate and

test the released software toolchains;

Improve software packages by bug fixing, performance increase and addition of features

Embedded MBD engineer

Design MATLAB Simulink models from scratch according to the specified high level requirements.Embedded systems Market Needs and Stakeholders (con't)

The average salary for a Network Security Engineer in Egypt

6

Graduates Job Profiles(con't)

Embedded Systems Testing Engineer

Testing the software and firmware of embedded systems. This includes developing and

executing test plans and test cases, analyzing and debugging software defects, and working with software development engineers to ensure that software meets requirements.

Embedded system engineer

analyzes software requirements and develop software solutions according to software life-cycle.

Analyzes customer issues and maintains existing software implementations. As well as he may contribute in the research and development of e-Mobility field.9-Month Professional Training Program

6Embedded systems Program Content Structure

(Embedded systems - PTP)

1068

Software Development Fundamentals Embedded Systems Knowledge

- Track Orientation Workshop • Embedded System Development Tools Hours
- Operating Systems Fundamentals • Verification and Testing of Embedded Systems
- Software Engineering for Embedded Systems • Embedded Linux
- Introduction To Programming

Automotive Application

- Data Structures and Algorithms
- Object-Oriented Programming Concepts • Automotive Bus Technology
- Java Programming For Industrial Engineering Standards
- Device Driver “AUTOSAR”

Embedded Systems Software

Consumer Appliances

- Introduction to Embedded Systems
- Introduction to Robotics “Elective”
- Embedded C Programming
- Artificial Intelligence and Machine Learning “Elective”
- Real Time Operating Systems
- Digital Signal Processing for Embedded Systems “Elective”
- VLSI Design: Programmable Devices
- Wireless Communication Systems “Elective”
- Matlab/Simulink for Embedded Systems
- Introduction to IoT “Elective”
- Microcontrollers for the IoT “Elective”

Embedded Hardware

Life skills

- Embedded Computer Architecture
- Hardware/Software Interfacing Life SkillsCourses
- Advanced Microprocessor
- Progressive Teamwork (Workshop)
- Introduction to PCB Design
- Professional Demeanor (Workshop)
- Multiprocessor Communication Systems
- Best Practices For Remote Working (Workshop)
- Communication Essentials for Professionals
- High Impact Presentations
- Job Seeking Skills

7Output and KPIs

1. Expected Working Offers Size: more than 90 % of graduates.

8ERP Consulting Track

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1. Programs offered

Market Needs

2. Industry / Academy Stakeholders and Stakeholders

3. Targeted Outcome

4. Certification

5. Graduates Job Profiles

Services & 1. Professional Training Program

Content

2 Program Admission Arrangement

Who May Apply?

Applicants must have a first degree from a recognized university or institution of higher education or provide

documentation indicating that they will earn such a first degree before enrolment in the 9-month program.

Admission

Requirements for Students vary depending on the student's area of study.

Prerequisites

Applicants preferred to have adequate knowledge in business concepts and Database Fundamentals

Selection Process

• PH01 –Phase 1

IQ Test | English Test | Problem Solving Test

• PH02 –Phase 2

Applicants who pass the above exams will be promoted to technical and interpersonal skills interview.

Those applicants would be

discussing with the interviewing panel their pre-work -“Before You Apply”- in a one-to-one interview

• PH03 –Phase 3

A second level interview would be held with ITI board members

Delivery Approach

• 60% face to face Learning| 40% Online

• Hardware requirement: Laptop with at least

8 GB of RAM and Core i7

Students' Deliverables

• Each student must deliver an international certificate based on his track

3 ERP-Consulting Tracks

4 Certifications

• SAP Certified Application Associate - SAP S/4HANA for Management Accounting Associates

1 Programs Offered • SAP Certified Application Associate – Business Process Integration with SAP S/4HANA

• SAP Certified Application Associate - SAP S/4HANA Sourcing and Procurement

Professional Training Program: • SAP Certified Application Associate - SAP S/4HANA for Financial Accounting Associates

• SAP Certified Application Associate - SAP S/4HANA Sales Upskilling

• ERP COONSULTING TRACK

Undergrads Summer Camps 5 Graduates Job Profiles

SAP Financial Consultant

SAP Financial Consultant is mainly responsible for designing, building and deploying SAP-based ERP solutions; leading analysis and design in the

2 Industry/Academy Stakeholders SAP Financial area. His/ her role is essential at the early phases of a project as s/he clarifies the technical

solution required by the business.

SAP Material Management Consultant

• IBM • P&G SAP MM Consultant operates within the material management module of the SAP system.

SAP MM

• PwC • ,TOYOTA, Consultant's main responsibilities are to

• SAP • Labs, SOLEX, Edraky, support SAP integration, process design, assessment, prototype,

configuration..

- Atos SNS and more SAP Controlling Consultant
- Valeo SAP Controlling consultant is responsible for the functionality, features, benefits and impact of Management
- Unilever Accounting ,Product Costing and profitability analysis in SAP.

SAP Sales & Distribution Consultant

SAP SD Consultant participates in the planning, development, maintenance, and improvement of SAP applications and the functional aspects of an SAP package. SAP SD Consultants work in project teams and use a range of platforms of servers or clients.

SAP SuccessFactors Consultant

3 Targeted Outcome

SAP SF Consultant is working closely with senior business and IT stakeholders from our clients to understand their business requirements and contribute to the design and implementation of their HCM

- Employability solution.

- IBM • Raptors

SAP Production Planning Consultant

- PwC • S-Energy

SAP PP Consultant provides customers with information and support related to products and services,

- SAP • UNILIEVER

educates customers about product features and benefits, answers questions, and assists with orders, also

- SOLEX • Links Plus

demonstrates product operation.

- EDRAKY • Sprinters

SAP ABAP Developer

- TERRALINK

ABAP Developer is generally responsible for creating SAP modules using the ABAP programming language

- E-Tax

and fine-tuning according to requirements. The SAP ABAP Developer performs all the steps of the software

- CIC

development cycle i.e. planning, coding, implementation, testing,

and support. His/her role is huge as s/he is the one who implements the ideas produced by analysts.

9-Month Professional Training Program

5Program Content Structure

1263 Hours

CODE01 Essential Courses NSE05

- Operating Systems Fundamentals 16%
- Computer Networks Fundamentals
- Introduction To Programming using C++ Language

NSE04 NSE01

- Introduction to Oracle SQL and PL/SQL
- 8% 40%

CODE02

SAP ERP Application Basics Courses

- SAP Overview & Navigation

NSE03

- ABAP Development 12%
- SAP System Administration
- Integration of Business Processes in SAP ERP Workshop

NSE02

CODE03

Business Courses 24%

- Enterprise Systems
- Introduction to Supply Chain Management
- Financial Accounting
- Managerial & Cost Accounting
- Project Management

CODE04

SAP Financial Courses

- Business Processes in Financial Accounting
- Financial Accounting Master Data
- Document and Posting Control
- Clearing, Payment differences & Cash journal
- Parking Documents & Special General Ledger Transactions
- Standard Reports & Drilldown Reporting
- Asset Accounting
- Overview of Closing Activities & Financial Statements
- Introduction to FIORI APPs & SAC in SAP Finance
- SAP Financial Case study

6Program Content Structure

CODE05

SAP Controlling Courses

- Business Processes in Management Accounting
- Cost Object Controlling Configuration
- SAP Cost Accounting Case Study

CODE06 SAP Material Management Courses

- Business Processes in Procurement
- SAP Purchasing
- Inventory Management and physical inventory
- Procurement of External Services
- Cross-Functional Customizing in SAP MM
- Introduction to FIORI APPs & SAC in SAP Logistics
- SAP Material Management Case

CODE07

SAP Sales & Distribution Courses

- Business Processes in sales and distribution
- SAP Sales
- Cross functional customizing in SAP SD
- SAP Sales & Distribution Case study

CODE08

Soft Skills Courses

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

7Geoinformatics

Executive Summary

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Market Needs 1. Programs Offered

and Stakeholders 2. Industry/Academy Stakeholders

3. Targeted Outcome

4. Certification

5. Graduates Job Profiles

Services & 1. Professional Training Program

Content

2Program Admission Arrangement

Who May Apply?

- Graduates of: o Petroleum Engineer
- o Computer Engineering o Geographers
- o Architecture Engineers o Geologists
- o Urban Planner Engineers
- o Civil Engineers

Prerequisites

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

- GIS Analyst and GIS Developer Job Profiles on Maharatech

<https://maharatech.gov.eg/course/view.php?id=1393>

- Career Road Map for GIS (Geographic Information System) System) on Maharatech :

<https://maharatech.gov.eg/enrol/index.php?id=39>

- Introduction to GIS Mapping " on Coursera: <https://www.coursera.org/learn/introduction-gis-mapping/home/welcome>

- Learn more about GIS, Location Intelligence and ESRI technologies: <https://www.esri.com/en-us/location-intelligence>

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

Selection Process

- PH01 –Phase 1

IQ Test | English Test | Problem Solving Test

- PH02 –Phase 2

Applicants who pass the above exams will be promoted to technical and interpersonal skills interview.

Those applicants would be

discussing with the interviewing panel their pre-work -"Before You Apply"- in a one to one interview

- PH03 –Phase 3

A second level interview would be held with ITI board members

Delivery Approach

- 75% face to face Learning| 25 % Online

- Common Hardware

- Common Software

Students' Deliverables

- Each student must deliver at least ONE freelancing job

3Geoinformatics Track

4 Certifications

N/A

Programs Offered

1

- Professional Training Program
- Intensive Code Camps
- Undergrads Summer Camps Graduates Job Profiles

5

GIS Analyst

- Undergrads Winter Camps

Geographic information systems (GIS) analysts manage and leverage GIS resources to create maps and graphic reports. They collect and handle data, provide mapping services, perform technical

- Online Services (MaharaTech)

research and analysis, and coordinate activities. GIS analysts are both subject matter experts and cross-functional leaders.

GIS Developers

Develop web mapping applications and geo-processing tools to support GIS.

2 Industry/Academy Stakeholders

Understand customer requirements and develop GIS application to meet business needs. Maintain and support application according to changing business requirements. Assist in data integrity and

- Esri NorthAfrica • IDSC quality assurance activities to ensure application stability.
- Khatib & Alami • GAS Masr

GIS Specialist

- Edge-Pro • ABG

Analyze spatial database information. Collect field data from clients and through observation

- Carto Logic

Develop custom and standard maps Prep maps for implementation. Develop and maintain GIS databases.

Sales Representatives

Respond to inbound requests and execute a high volume of outbound calls and emails each day to

3 Targeted Outcome generate new sales to fuel business's growth. Demonstrate the ability to follow up, build sales

relationships, and close business. Utilize the phone as well as electronic communication to manage

- Employability

and maintain a pipeline of target prospects, as you gather information and vet customer interest.

- Esri NorthAfrica • IDSC

- Khatib & Alami • GAS Masr

- Edge-Pro • ABG

- Carto Logic9-Month Professional Training Program

5Geoinformatics

925 Hours

Program Content Structure

Fundamental Course

Fundamental courses Core courses

- Computer Networks Fundamentals GEO System Analysis and Design Geo System Analysis

7%

- Database Fundamentals • GIS Fundamentals and Design

7%

- Client-Side Technologies • GIS Concepts and Techniques 24%

- HTML5 & CSS3 • Map Cartography and Visualization

GIS Developemnt

- Introduction to Programming • Spatial Databases 10%

- Object-Oriented Programming Concepts • Spatial Data Infrastructure

- Data Structures and Algorithms • Geospatial servers and cloud

- Operating Systems Fundamentals • Geospatial System Analysis and Design GEOAI

- Geospatial servers and cloud 19%

33%

GIS Development

Remote Sensing

Life Skills Courses • Geo-Apps Development

Techniques

- Geo-Libraries Development

- Professional Demeanor (Workshop)

- GIS Applications

- Communication Essentials for Professionals

Life Skills

- High Impact Presentations

GeoAI

- Job Seeking Skills
- Geo-Spatial Data Handling (Acquisition, Modeling & Quality)
- Geospatial Artificial Intelligence

Remote Sensing Techniques

- Remote Sensing and Digital Image Processing

Graduates Job Profiles • ERDAS Imagine

- GIS Analyst
- GIS Developers

Certifications

- GIS Specialist N/A
- Sales Representatives

6Infrastructure

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5. Graduates Job Profiles

Services & 1. Professional Training Program

Content

2Program Admission Arrangement

Who May Apply?

- Graduates of:
 - o Mechatronics Engineering
 - o Electrical power Engineering
 - o Control Engineering

Prerequisites

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

- Applicants must have adequate knowledge in control theory and automation basics
- Introduction to PLC and SCADA system

<https://www.udemy.com/course/learn-scada-in-a-day-starting-from-scratch/>

- Instrumentation Fundamentals <https://www.udemy.com/topic/plc/>
- 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

IQ Test | English Test | Problem Solving Test

- PH02 –Phase 2

Applicants who pass the above exams will be promoted to technical and interpersonal skills interview.

Those applicants would be

discussing with the interviewing panel their pre-work -“Before You Apply”- in a one to one interview

- PH03 –Phase 3

A second level interview would be held with ITI board members

Delivery Approach

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

Students' Deliverables

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

3 Infrastructure Tracks

4 Certifications

Programs Offered

1 Advanced PLC

SCADA Systems

Professional Training Program:

KNX for Smart Homes

- Industrial Automation engineer

DCS Systems by Yokogawa (via GTS)

- DCS Engineer
- Instrumentation Engineer
- PLC Engineer

Graduates Job Profiles

Intensive Code Camps: 5

- PLC Engineer Automation Engineer (Application Engineer)
- SCADA Engineer Responsible of designing and control different processes using PLC. Connection varies type of
- Instrumentation Engineer inputs and outputs using different communication protocols.
- Maintenance Engineer

SCADA Engineer

Undergrads Summer Camps

Responsible of designing SCADA systems to monitor different input and outputs for the whole

Online Services (MaharaTech, ITI Tech Leap)

process. Beside collecting data to study different trends

2 Industry/Academy Stakeholders Instrumentation Engineer (I&C Engineer)

Responsible for overseeing all technical issues related to the erection & installation of control systems, field instrumentation and instrumentation (I&C) equipment and all mechanical

Schneider

packages/systems

Honeywell

ABB

Siemens

Alstom

Yokogawa

3 Targeted Outcome

- Employability
 - o Schneider o Advances
 - o Honeywell o MAS Automation
 - o ABB
 - o Siemens
 - o Alstom
 - o Yokogawa
 - o ABB
 - o Giza Systems

5 Industrial Automation

984 Hours

Program Content Structure Soft Skills

13%

Fundament

Fundamental courses Core Courses al courses

11%

Core

- Introduction to Programming using C • Home Automation using KNX

courses

- Data Structure and Algorithm • Instrumentation for Automation

76%

- Introduction to Database Fundamentals • Electrical Power Engineering Principles for Automation
- Introduction to Automation • AutoCAD Electric for Automation Engineers
- Modeling and Simulation -- • Introduction to PLCs
- Introduction to MATLAB • PLC Applications using Siemens
- Industrial Data Communications and Networking
- Distributed Control Systems
- Radio Telemetry Systems for Industry and RTUs

Soft Skills Courses • SCADA and HMI Systems for Industry + 99 Hours

- Functional Safety and Hazard Operability
- Lean Six Sigma English
- Motors and Drives
- Communication Essentials for Professionals
- Advanced Pneumatic and Hydraulic Control Systems Course
- High Impact Presentations
- Applied Machinery Vibration
- Job Seeking Skills
- Turbo machinery Control using Triconix
- Progressive Teamwork
- Industrial Control System Security Essentials
- Professional Demeanor
- Robotics and Computer Vision

6Infrastructure TracksContent

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4. Certification

5. Graduates Job Profiles

Services & 1. Professional Training Program

Content 2. Intensive Code Camps

3. Undergrads Summer Camps

4. Online Services

Moving Partners' Feedback

Forward

2Program Admission Arrangement

Who May Apply?

Graduates of:

- Computer Engineering,
- Communications Engineering
- Computer Science

Prerequisites

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

- Introduction to computer networks

<https://maharatech.gov.eg/course/view.php?id=37>

- Introduction to cybersecurity

<https://maharatech.gov.eg/course/view.php?id=37>

- VMware Foundation

<https://maharatech.gov.eg/course/index.php?categoryid=228>

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

IQ Test | English Test | Problem Solving Exam

- 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 -“Before You Apply”- in a one to one interview

- PH03 –Phase 3

A second level interview would be held with ITI board members

Delivery Approach

- 75% face to face Learning| 25 % Online

- Common Hardware

- Common Software

Student deliverables

- Students must deliver international certificates based on his track .

3Infrastructure Tracks

4 Certifications

E-Learn Security

1 Programs Offered Governance , Risk , Compliance Professional

VMware (VCP)

PTP MS (AZURE)

Cyber Security engineer Amazon (AWS)

Cloud Architecture Red hat (RHCSA)

Fortinet (NSE 4)

System Administration

Intensive Training

Graduates Job Profiles

5

Cyber Security Associate

System Admin Systems Administrator

Data Center Engineer An individual who carries the responsibility of overseeing the smooth operation of a computer network

Offensive Security & Pen Testing for an organization. They make sure that mail servers are functioning properly, plan networks and

cyber incident responder oversee their installation, maintain and upgrade software, support users in smaller organizations,

monitor security tools and handle the installation, distribution, control and removal of hardware. A

System Administrator also maintains the internet connection and firewall. They often support other

Online Services (MaharaTech, ITI Tech Leap)

divisions in the organization that occasionally integrate with the IT department.

Cyber sec. camp for undergrads (midyear and

Cyber Security Associate

summer).

is an essential part of any large (and many mid-sized) business' overall technology team. A network security engineer is involved in the provisioning, deployment, configuration, and administration of

Industry/Academy many different pieces of network-and security-related hardware and software. These include firewalls,

2

routers, switches, various network monitoring tools, and VPNs (virtual private networks). These

Stakeholders

engineers also regularly perform network-based security risk assessments

VMware IT Academy Data Center Engineer

RedHat Academy is responsible for designing, setting up, and managing information/network systems at data
EG-cert Kaspersky centers. Their job description entails monitoring systems operations and administering IT solutions to
Palo alto ensure servers, hard drives, and other data center equipment function efficiently.
Fortinet
Cisco Penetration Testers
Huawei can be considered ethical hackers, as they try to break into computers and networks in order
3 Targeted Outcome
to find potential security breaches. Penetration Testers duties include running tests, writing reports about their findings, designing new tests, and running security audits.
Employability
Vodafone Egypt, VOIS, Orange Egypt, OBS, Etisalat Misr.
cyber incident responder main responsibility is to respond to security disruptions, threats, and NBE, AlexBank, AAIB, Fawry, Aman. Valeo, CyShield, ZINAD
incidents. He/she works on investigating and analyzing different logs, traffics and devices using a suite of forensic tools and analysis techniques. Incident responder works also to identify the damage, put remediation and containment plan and advice with recommendations to improve existing controls
.9-Months Professional Training Program
5 Program Content Structure
Cyber Security
9-Months Professional Training Program
1290 Hours
Fundamental courses Core Courses
Fundame Soft
Track Orientation Workshop Cisco Internetworking
ntal Skills
Database Fundamentals Cisco Network Associate
Courses 5%
Operating Systems Fundamentals Microsoft Windows Active Directory
11%
Introduction to Programming Microsoft Windows Infrastructure
Client-Side Technologies Fundamentals Red Hat System Administration I
Red Hat System Administration II
Introduction to PHP Programming
Red Hat System Administration III
Introduction to Python Programming
Core
Ethical Hacking and Security Assessment
MySQL Database
courses
Firewalls Technologies
84%
Incident Handling
Computer and Network Forensics
Introduction to bug hunting
Soft Skills Courses
Introduction to Virtual Private Networks
Progressive Teamwork (Workshop) Malware Analysis and Reverse Engineering
Professional Demeanor (Workshop) Metasploit Essentials
Communication Essentials for Professionals Mobile Penetration Testing
Risk Assessment and Compliance
High Impact Presentations
Web Penetration Testing
Job Seeking Skills

Windows Security
Freelancing Basics
ITIL Foundation
6Program Content Structure
Cloud Architecture
9-Months Professional Training Program
1266 Hours
Fundamental courses Core Courses
Fundame Soft
Track Orientation Workshop Cisco Network Associate
ntal Skills
Database Fundamentals Cisco Internetworking
Courses 5%
Operating Systems Fundamentals Data Center Infrastructure design
12%
Python Programming Microsoft Windows Infrastructure
MySQL Database Microsoft Windows Active Directory
Red Hat System Administration I
Red Hat System Administration II
Core
Red Hat System Administration III
courses
Bash Shell Script
83%
Information Storage and Management
Introduction to Big Data and Hadoop
Infrastructure As a Code (IaaS)
Soft Skills Courses
Data Center Technologies
Progressive Teamwork (Workshop) OpenStack Deployment and Operation I
Professional Demeanor (Workshop) VMware vSphere: Install, Configure and Manage
Best Practices For Remote Working (Workshop) VMware NSX
OpenStack Deployment and Operation II
Communication Essentials for Professionals
Veeam Backup and Replication
High Impact Presentations
Docker Fundamentals
Job Seeking Skills
AWS SysOps Administration
Devops Fundamentals
freelancing basics
Microsoft Azure
ITIL foundation
7Program Content Structure
System Administration
9-Months Professional Training Program
1320 Hours
Fundamental courses Core Courses
Fundame Soft
Track Orientation Workshop Data Structures and Algorithms
ntal Skills
Database Fundamentals Red Hat System Administration I
Courses 5%
Operating Systems Fundamentals Red Hat System Administration II
12%

Introduction to Programming Red Hat System Administration III

Red Hat High Availability Clustering

Oracle Solaris Administration

Bash Shell Script

Core

Python Programming

courses

Object Oriented Programming using Python

83%

Web Server Administration

Network Security Fundamentals

Network Design and Implementation

Soft Skills Courses

Advanced switching design and Implementation

Progressive Teamwork (Workshop) Advanced routing design and Implementation

Professional Demeanor (Workshop) Ansible

Communication Essentials for Professionals Container Engine

Continuous Deployment and Integration

High Impact Presentations

Systems Operations on AWS

Job Seeking Skills

Version Control Systems

Virtualization Technologies

Introduction to Oracle SQL and PL/SQL

Oracle DBA I

Oracle DBA II

Microsoft Windows Infrastructure

Information Storage and Management

Introduction to Kubernetes

Agile Software Development Methodologies

ITIL Foundation

8JETS

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3. Targeted Outcome

4. Certification

5. Graduates Job Profiles

Services & 1. Professional Training Program

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2Program Admission Arrangement

Who May Apply?

- Graduates of:

- o All University Graduates may apply

Prerequisites

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

- studying this course at Coursera “Object-Oriented Data Structures in C++”

<https://www.coursera.org/learn/cs-fundamentals-1>

- or Object-oriented fundamentals at https://www.tutorialspoint.com/cplusplus/cpp_quick_guide.htm
- or any other resources that you prefer
- 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

IQ Test | English Test | Problem Solving Exam

- PH02 –Phase 2

Applicants who pass the above exams will be promoted to technical and interpersonal skills interview.

Those applicants would be

discussing with the interviewing panel their pre-work -“Before You Apply”- in a one to one interview

- PH03 –Phase 3

A second level interview would be held with ITI board members

Delivery Approach

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

Students' Deliverables

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

3JETS Tracks

4 Certifications

Spring Certified Professional.

Programs Offered

1 Oracle Certified Professional: Java SE 11 Developer

Associate Android Developer

Professional Training Program:

App development with Swift

- Enterprise and Web Applications Development (Java)

- Mobile Applications Development (Native)

Intensive Code Camps:

Graduates Job Profiles

- Android Development Track 5
- iOS Track Enterprise and Web Applications Developer

Online Services (MaharaTech, ITI Tech Leap) This job profile demand Java developers, who are capable of using different JEE technologies in

diverse application domains to get the skills of how to build database-driven custom web applications and enterprise applications.

iOS Developer

iOS developers are required to develop mobile applications for different Apple mobile devices (iPhone, iPad...etc.) using Objective C or Swift programming languages and to be able to

2 Industry/Academy Stakeholders

communicate with different backend technologies using REST APIs and to secure those mobile applications in a proper way.

- VMWare IT Academy

Android Developer

- RedHat Academy

Android developers are required to develop mobile applications natively using different google APIs

- Apple

over Java or Kotlin programming languages and to be able to communicate with different backend technologies using REST APIs and to secure those mobile applications in a proper way. audits.

3 Targeted Outcome

- Employability

o Vodafone Egypt o Fawry

- o VOIS o Aman
- o Orange Egypt o Valeo
- o OBS o CyShield
- o Etisalat Misr o ZINAD
- o NBE
- o AlexBank

o AAIB9-Month Professional Training Program

5Enterprise & Web Applications Development (Java)

900 Hours

Program Content Structure

Soft Skills

11%

Fundamental courses Core Courses

- Track Orientation Workshop Core Java Programming
- Introduction to Object-Oriented Programming Concepts GUI using Java Programming Fundamental
- Database Fundamentals Advanced GUI using JavaFX Courses...

Database Programming using Java Programming

- Data Structures and Algorithms

Concurrency Programming using Java Programming

- Operating Systems Fundamentals Core

I/O and Network Programming using Java Programming

- Introduction to Computer Networks & Cyber Security courses

Secure Applications using Java Programming

- XML Fundamentals 73%

API for XML Processing Using Java

- Introduction to Oracle SQL and PL/SQL

Introduction to ORM (Object-Relational Mapping)

- Introduction to Software Engineering

Developing Dynamic Web Applications using Servlets and JSP

- Agile Software Development Methodologies

Web and Enterprise Applications Development Concepts

- Object-Oriented Analysis & Design using UML

HTML5

- Java Design Principles and Patterns

CSS3

- Introduction to Testing and automated unit test Introduction to java script
- Versioning Control Systems Developing a Web Application Using Angular
- Project Configuration Management Asynchronous Web Development
- Freelancing Basics Java API for Big Web Service

Java API for Restful Web Service

Soft Skills Courses Java Server Faces (JSF)

Enterprise Java Beans (EJB)

- Progressive Teamwork (Workshop)

Spring Framework Core

- Professional Demeanor (Workshop)

Spring Framework Data Access

- Best Practices For Remote Working (Workshop)

Spring Framework security

- Communication Essentials for Professionals

Spring Framework Aspect Oriented Programming

- High Impact Presentations

Spring Framework Web MVC

- Job Seeking Skills

Spring Framework Remote Services

Spring Framework Boot

6 Mobile Applications Development (Native)

948 Hours

Android Core Courses

Program Content Structure Cross Soft

Fundamentals

- Developing Applications using Java Programming platform Skills...

18%

- Developing Applications for Android using Java 3%

- Material Design

Fundamental courses

- Design Patterns for Android

- Track Orientation Workshop • Rx Java for Android

iOS

- Operating Systems Fundamentals • Gradle Build Tool

20% Supporting

- Computer Network Fundamentals • Kotlin Programming Language

22%

- Database Fundamentals • Developing Applications for Android using Kotlin

- Introduction to Software Engineering • Kotlin Coroutines

- Introduction to Object Oriented Programming Concept • Android Applications Unit Testing

- Data Structures and Algorithm • JetPack Compose

Supporting courses • Introduction to Android Applications Security

iOS Core Courses

- Versioning Control Systems

- Java Design Principles and Patterns • Objective C

- Agile Software Development Methodologies • Developing Applications for iOS using Obj.C

- Object-Oriented Analysis & Design using UML • Developing Applications for iOS using Swift

Android

- Introduction to Testing and automated unit test • Design Patterns for iOS

31%

- Introduction to Web technologies • iOS Applications Unit Testing

- XML Fundamentals • Reactive programming for iOS

- API for XML Processing using Java • Swift UI

- Introduction to Developing Dynamic Web Cross platforms Core Courses

Applications using Servlets and JSP

- Introduction to Flutter Development

- Java API for Restful Web Service

- Freelancing Basic

Soft Skills Courses

- Mobile User Interface Concepts (UI)

- Progressive Teamwork (Workshop)

- Professional Demeanor (Workshop)

- Best Practices For Remote Working (Workshop)

- Communication Essentials for Professionals

- High Impact Presentations

- Job Seeking Skills

7 Open Source Academy

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3. Targeted Outcome
4. Certification
5. Graduates Job Profiles
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2Program Admission Arrangement –
Open Source Applications Development
Who May Apply?

- Graduates of: All University Graduates with prerequisites of having a first degree from a recognized university or institution of higher education with minimum degree of Good

Prerequisites

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

- Programming Fundamentals at ocw.mit.edu/courses/intro-programming/
- OOP Fundamentals at www.tutorialspoint.com/cplusplus/cpp_quick_guide.htm
- Web Fundamentals at maharatech.gov.eg/course/view.php?id=36
- Linux Fundamental at www.guru99.com/introduction-linux.htm
- Database Fundamentals at maharatech.gov.eg/course/view.php?id=740
- ITI values at www.iti.gov.eg/Site/AboutUs

Selection Process

- PH01 –Phase 1

IQ Test | English Test | Problem Solving Exam

- PH02 –Phase 2

Applicants who pass the above exams will be promoted to technical and interpersonal skills interview. Those applicants would be

discussing with the interviewing panel their pre-work -“Before You Apply”- in a one to one interview

- PH03 –Phase 3

A second level interview would be held with ITI board members

Delivery Approach

- 75% face to face Learning| 25 % Online
- Common Software: Red Hat or Ubuntu Operating System

Students' Deliverables

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

3Program Admission Arrangement –

Telecom Application Development

Who May Apply?

- Graduates of:
 - Communication Engineering
 - Computer Engineering
 - Computer Science

Prerequisites

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

- Programming Fundamentals at ocw.mit.edu/courses/intro-programming/
- OOP Fundamentals at www.tutorialspoint.com/cplusplus/cpp_quick_guide.htm
- Linux Fundamental at www.guru99.com/introduction-linux.htm
- Database Fundamentals at maharatech.gov.eg/course/view.php?id=740
- Mobile Networks Fundamentals at www.tutorialspoint.com/gsm/index.htm
- ITI values at www.iti.gov.eg/Site/AboutUs

Selection Process

- PH01 –Phase 1

IQ Test | English Test | Problem Solving Exam

- PH02 –Phase 2

Applicants who pass the above exams will be promoted to technical and interpersonal skills interview.

Those applicants would be

discussing with the interviewing panel their pre-work -“Before You Apply”- in a one to one interview

- PH03 –Phase 3

A second level interview would be held with ITI board members

Delivery Approach

- 75% face to face Learning| 25 % Online

- Common Software: Red Hat or Ubuntu Operating System

Students’ Deliverables

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

4 Program Admission Arrangement –

Cloud Platform Development

Who May Apply?

- Graduates of: Engineering specialization with minimum degree of good

Prerequisites

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

- Programming Fundamentals at ocw.mit.edu/courses/intro-programming/

- OOP Fundamentals at www.tutorialspoint.com/cplusplus/cpp_quick_guide.htm

- Web Fundamentals at maharatech.gov.eg/course/view.php?id=36

- Linux Fundamental at www.guru99.com/introduction-linux.htm

- Database Fundamentals at maharatech.gov.eg/course/view.php?id=740

- Python Fundamental at pythonprogramming.net/python-fundamental-tutorials/

- Introduction to Cloud at www.pluralsight.com/courses/cloud-computing-big-picture

- Introduction to AWS at www.pluralsight.com/courses/aws-certified-solutions-architect-associate

- ITI values at www.iti.gov.eg/Site/AboutUs

Selection Process

- PH01 –Phase 1

IQ Test | English Test | Problem Solving Exam

- PH02 –Phase 2

Applicants who pass the above exams will be promoted to technical and interpersonal skills interview.

Those applicants would be

discussing with the interviewing panel their pre-work -“Before You Apply”- in a one to one interview

- PH03 –Phase 3

A second level interview would be held with ITI board members

Delivery Approach

- 75% face to face Learning| 25 % Online

- Common Software: Red Hat or Ubuntu Operating System and Docker

Students’ Deliverables

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

5 Open Source Tracks

4 Certifications

Red Hat Certified System Administrator

Programs Offered

1 AWS Certified Cloud Practitioner

Kubernetes Administrator

Professional Training Program:

AWS Certified Solutions Architect – Associate

- Open Source Applications Development

MS (AZURE)

- Telecom Application Development MongoDB Associate Developer

- Cloud Platform Development

Intensive Code Camps:

Graduates Job Profiles

- Full-Stack using Python 5
- Full-Stack using PHP Full Stack Web Developer:
- IoT The primary responsibility of a Full Stack Developer includes designing user interactions on
- DevOps websites, developing servers and databases for website functionality

Undergrads Summer Camps

Telecom Application Developer.

Online Services (MaharaTech, ITI Tech Leap)

Contributing in different software development project phases. From gathering the requirement of Telecom Service and analysis the requirements to deploy the service

2 Industry/Academy Stakeholders

IoT Applications Developer

An IoT Application Developer is a programmer who develops and creates end user IoT

- RedHat Academy applications on top of AEP and sometimes on top of the IoT Edge Gateway.
- AWS
- SpimeSenseLabs DevOps Engineer
- Spectro A DevOps Engineers combine an understanding of both engineering and coding from creating and

implementing systems software to analyzing data to improve existing ones. They understand the software development lifecycle and have a clear understanding of various automation tools for developing digital pipelines

3 Targeted Outcome Cloud Application Developer

System Integration

- Employability

System Administrators

- o Vodafone Egypt o Edfa Backend Developer
- o VOIS o 4G Telecom Frontend Developer
- o Orange Egypt o ZINAD MEARN Stack Developer
- o Etisalat Misr o Sprinters Odoo Developer
- o Valeo o AvidBeam IoT End-to-end Architect
- o ITWorx o Genwin IoT Systems Integration Engineer
- o IoTBlue o Giza Systems
- o Spectro9-Month Professional Training Program

7Open-Source Applications Development

978 Hours

Program Content Structure

Soft Skills

Fundamental courses Core Courses 6%

- Track Orientation Workshop • Angular
- Artificial Intelligence Workshop • Apache Web Server
- Agile Software Development Methodologies • Application Security Basics
- Client-Side Technologies • Bash Shell Script
- Computer Network Fundamentals • Block Chain Fundamentals Fundament
- Data Structures and Algorithms • Cloud Computing and Dockers Fundamentals al Courses
- Database Fundamentals • Cross Platform Mobile Development 33%
- CSS Frameworks Core
- HTML5 & CSS3 123
- Design Patterns courses
- Introduction to Programming

61%

- Developing Applications using Java Programming
- Introduction to Software Engineering
- JavaScript Libraries
- Object-Oriented Programming Concepts
- MongoDB
- Operating Systems Fundamentals

- MySQL Database
- XML Fundamentals
- Node.js
- Freelancing
- Open Source ERP Systems
- Artificial intelligence workshop
- PHP CMSs
- PHP Programming
- PHP Web Frameworks
- Push and Pull Technologies
- Python Programming

Soft Skills Courses

- ReactJS
- Progressive Teamwork (Workshop) • Red Hat System Administration I
- Professional Demeanor (Workshop) • Red Hat System Administration II
- Best Practices For Remote Working (Workshop) • Ruby Programming
- Communication Essentials for Professionals • Unit & Automated Testing
- High Impact Presentations • Version Control Systems
- Job Seeking Skills • VueJS
- Web Services

8Telecom Applications Development

972 Hours

Program Content Structure

Soft Skills

Fundamental courses Core Courses 6%

- Track Orientation Workshop • GSM & GPRS Network Fundamentals & Architecture
- Artificial Intelligence Workshop • 3G Network Fundamentals & Architecture
- Telecom Security Workshop • 4G LTE Network Fundamentals & Architecture
- Database Fundamentals • 5G Network Fundamentals & Architecture
- Data Structures and Algorithms • Post Paid Billing System Fundament

al Courses

- Operating Systems Fundamentals • Value Added Services & Platforms

31%

- Introduction to Computer Networks • Prepaid Realtime Charging System
- eTOM (Enhanced Telecom Operations Management) Model
- XML Fundamentals Core
- Introduction to Software Engineering • Red Hat System Administration I courses
- Agile Software Development Methodologies • Red Hat System Administration II 63%
- Red Hat System Administration III
- Introduction to Testing and automated unit test
- Bash Shell Scripts
- Versioning Control Systems
- Developing Applications using java Programming
- Freelancing Basics
- Cloud Computing and Dockers Fundamentals
- Client-Side Technologies
- Web Development for Telecom
- HTML5 & CSS3
- Signaling System No.7
- Introduction to Programming • Functional Programming using Erlang
- Object-Oriented Programming Concepts • Erlang/OTP Programming
- Advanced C Programming under Linux Environment
- Solaris Network Administration

Soft Skills Courses

- Android Operating System

- Professional Demeanor (Workshop) • Web Services
- Communication Essentials for Professionals • PostgreSQL Database
- High Impact Presentations • Java Api For Integrated Network (JAIN)
- Job Seeking Skills • Python Programming
- Freelancing • MongoDB

9Cloud Platform Development

1029 Hours

Program Content Structure

Soft Skills

Fundamental courses Core Courses 5%

- Track Orientation Workshop • Advanced Networking Fundament
 - Agile Software Development Methodologies • Amazon PaaS Web services al Courses
- 20%

- Client-Side Technologies • Apache Web Server
- Computer Network • Application Containers
- Data Structures and Algorithms • Application Security Basics
- Bash Shell Script
- Database Fundamentals
- Big Data and Data Science Fundamentals
- HTML5 & CSS3 123
- Cloud Computing Fundamentals
- Introduction to Programming
- Configuration Management
- Introduction to Software Engineering
- Continuous Delivery (Automation, Integration and Testing)
- Object-Oriented Programming Concepts
- Developing Applications using Java Programming
- Operating Systems Fundamentals
- Enterprise Applications Architecture and Integration Core
- XML Fundamentals • Google Cloud Platform courses

75%

- Message Queuing
- Microservices Architecture
- MySQL Database
- Node.js
- NoSQL Database
- OpenShift
- OpenStack APIs

Soft Skills Courses

- Push and Pull Technologies
- Communication Essentials for Professionals • Python Programming
- High Impact Presentations • Red Hat System Administration I
- Job Seeking Skills • Red Hat System Administration II
- Professional Demeanor (Workshop) • Red Hat System Administration III
- Progressive Teamwork (Workshop) • Ruby Programming
- Freelancing • Terraform Cloud Remote State Management
- Unit & Automated Testing
- Version Control Systems
- Web Services

10Information Technology Institute

Systems Development Department

2023–2024Professional Web Development & BI

Executive Summary

2023–2024Content

Program 1. Who May Apply?

Admission 2. Prerequisites

3. Selection Process

Arrangement

4. Delivery Approach

5. Student's Deliverables

Market Needs 1. Programs Offered

and Stakeholders 2. Industry/Academy Stakeholders

3. Targeted Outcome

4. Certification

5. Graduates Job Profiles

Services & 1. Professional Training Program

Content

3Program Admission Arrangement

Who May Apply?

- All University Graduates especially Computer Science and Engineering Graduates and Applicants willing to expand their skills and knowledge.

Prerequisites

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

- An Introduction to Programming by studying this course at Coursera "An Introduction to Programming" <https://www.coursera.org/learn/intro-programming>
- Computer Programming Tutorial at https://www.tutorialspoint.com/computer_programming/index.htm
- Intro to SQL: Querying and managing at <https://www.khanacademy.org/computing/computer-programming/sql>
- other resources that you prefer Web Fundamentals at <http://www.maharatech.gov.eg>
- 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

IQ Test | English Test | Problem Solving Exam

- PH02 –Phase 2

Applicants who pass the above exams will be promoted to technical and interpersonal skills interview.

Those applicants would be

discussing with the interviewing panel their pre-work -"Before You Apply"- in a one to one interview

- PH03 –Phase 3

A second level interview would be held with ITI board members

Delivery Approach

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

Students' Deliverables

- Each student must deliver at lest ONE freelancingjob and an internaltional certificatebased on his track

4Professional Web Development & BI Track

4 Certifications

Programs Offered

1 Data analyst (Microsoft certificate)

Exam 70-778: Analyzing and Visualizing Data with Microsoft Power BI

Professional Training Program:

Analyzing Data with Microsoft Power BI

- Professional Web Developer & BI

MS (AZURE)

Intensive Code Camps: Amazon (AWS)

- NET Full stack Development Exam 70-467: Designing Business Intelligence Solutions with Microsoft SQL Server
- PowerBI Specialist MCSE: Business Applications(CRM Dynamics)

- MEAN Stack Developer
- Undergrads Summer Camps
- Online Services (MaharaTech, ITI Tech Leap)

2 Industry/Academy Stakeholders 5 Graduates Job Profiles

Microsoft .Net Full Stack Web Developer

is a programmer or technical person who can work within the software development process and is

- AAIB

knowledgeable in the application's front and back end. In addition, a full-Stack .Net Developer must have good knowledge of databases, server configuration, and user interface.

3 Targeted Outcome Business Intelligence and Machine Learning Specialist

a professional who has expertise in both business intelligence and machine learning. Business

- Employability

intelligence (BI) is the process of analyzing data to help organizations make informed decisions.

o VOIS o Cross Workers

o Orange Egypt o EJada Frontend Developer

o Link Development o Valeo A Front-End Developer is someone who creates websites and web applications. The difference

o Etisalat Misr o CyShield between Front-End and Back-End is that Front-End refers to how a web page looks, while back-end

o MidBank o Giza Systems refers to how it works.

o AlexBank o Deloitte

o Khatib & Alam o Obeikan Microsoft Cloud Application Developer

o Fawry o Noon Microsoft Cloud Application Developer is not a specific person but rather a role-based certification

o Aman o EFGHerms offered by Microsoft. It is designed for developers who create and maintain cloud applications on

o Takseet o IBM Microsoft Azure.9-Month Professional Training Program

6Professional Web Development & BI

1500 Hours

Program Content Structure

Software Development Fundamentals & Essentials

- Operating Systems Fundamentals Software Design Methodologies 5%4%19%

• Introduction to Computer Networks & Cyber Security • Agile Software Development Methodologies

• Data Structures and Algorithms • Devops 13%

• Database Fundamentals • Object Oriented Analysis & Design using UML

• Introduction to Programming • Unit Testing

• Introduction to Software Engineering • .Net Design Patterns 9%

20%

• Object-Oriented Programming Concepts • Source Control

• XML Fundamentals

Business Intelligence & Machine Learning

Front End & Mean Stack

• Microsoft SQL Server - Business Intelligence

• Client-Side Technologies 30%

• IBM Datastage and Integration

• HTML5 & CSS3

• PowerPivot & Power BI

• Responsive Web Fundamentals • Introduction to Data Mining Algorithms Software Development

Fundamentals & Essentials

• jQuery Fundamentals • Introduction to BigData & Hadoop

• Angular Fundamentals • Calculus & Statistics Concepts Front End & Mean Stack

• Node.js Fundamentals • Introduction to Machine Learning & Data Scientist Net Core & Web Application Development

• MongoDB

- ES.Next Microsoft Dynamics CRM Software Design Methodologies
- Advanced JavaScript • Microsoft Dynamics CRM Business Intelligence & Machine Learning
- .Net Core & Web Application Development • Microsoft Dynamics CRM Development
- SoftSkills
- IIS Administration
- Visual C# .Net Soft Skills Courses Microsoft Dynamics CRM
- Advanced SQL Server Programming • Communication Essentials for Professionals
- Language Integrated Query(LINQ) • High Impact Presentations
- Windows presentation foundation • Job Seeking Skills
- ASP.Net Core MVC • Professional Demeanor (Workshop)
- ASP.Net Core Blazor • Best Practices For Remote Working (Workshop)
- ASP .Net Web APIs • Progressive Teamwork and Leadership Skills (Workshop)
- Introduction to gRPC on .Net Core
- ASP.Net SignalR
- Entity Framework 6 & Core
- Introduction to MS - Azure 7Information Technology Institute

Web & User Interface

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2023–2024Content

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5. Student's Deliverables

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and Stakeholders 2. Industry/Academy Stakeholders

3. Targeted Outcome

4. Certification

5. Graduates Job Profiles

Services & 1. Professional Training Program

Content

9Program Admission Arrangement

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

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>

Selection Process

• PH01 –Phase 1

IQ Test | English Test | Problem Solving Exam

• PH02 –Phase 2

Applicants who pass the above exams will be promoted to technical and interpersonal skills interview.

Those applicants would be

discussing with the interviewing panel their pre-work -“Before You Apply”- in a one to one interview

- PH03 –Phase 3

A second level interview would be held with ITI board members

Delivery Approach

- 75% face to face Learning| 25 % Online

- Common Hardware

- Common Software

Students' Deliverables

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

10 Web & User Interface Track

1 Programs Offered

4 Certifications

Professional Training Program:

HTML5, CSS3, JS (40 H)

- MEAN Stack Developer

ES6(2 H)

- MERN Stack Developer

Angular(38 H)

- UI-UX Designer MTA: Introduction to Programming Using HTML and CSS

Undergrads Summer Camps

Online Services (MaharaTech, ITI Tech Leap)

5 Graduates Job Profiles

2

Industry/Academy Stakeholders

MEAN Stack Developer

- N/A 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.

3 Targeted Outcome

MERN Stack Developer

- Employability 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

o Yodawi o EVA Pharma

database tier (MongoDB)

o Booking o Etisalat

o Souq o Genwin

UI-UX Designer

o EventBrite o Link

aims to create a positive user experience that encourages customers to stick with a brand or

o Vezeeta. o Giza System

product. While a UX Designer decides how the user interface works, the UI designer decides how

o Fawry o Sprinters

the user interface looks.

o Aman

o Valeo

o _VOIS9-Month Professional Training Program

12 Web & User Interface Development

1410 Hours

Program Content Structure

Soft Skills

Fundament

Fundamental courses 5%

Core Courses al Courses

- Data Structures and Algorithms 16%

- Database Fundamentals • Client-Side Technologies

- XML Fundamentals • HTML5 & CSS3
- jQuery Fundamentals
- Introduction to Programming
- Responsive Web Fundamentals
- Object-Oriented Programming Concepts
- Responsive Web Design Frameworks
- CSS Preprocessor
- Vue JS
- React JS Core
- Angular Fundamentals courses
- Node.js Fundamentals 79%
- Next JS

Soft Skills Courses • Nest JS

- MongoDB
- Progressive Teamwork (Workshop)
- Advanced JavaScript
- Professional Demeanor (Workshop)
- Relational Database
- Best Practices For Remote Working (Workshop)
- ES.Next
- Communication Essentials for Professionals
- UI/UX design Principles
- High Impact Presentations
- Design Thinking
- Job Seeking Skills
- Adobe Photoshop Web
- Adobe Illustrator Web
- Adobe XD
- Design Elements and Prototype

13Software Architecture

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4. Delivery Approach

5. Student's Deliverables

Market Needs 1. Programs Offered

and Stakeholders 2. Industry/Academy Stakeholders

3. Targeted Outcome

4. Certification

5. Graduates Job Profiles

Services & 1. Professional Training Program

Content

15Program Admission Arrangement

Who May Apply?

• Graduates of:

o Computer Engineering

o Communications Engineering

o Computer Science

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 <http://bit.ly/2OGcLix>
- Introduction to Database <https://www.khanacademy.org/computing/computer-programming/sql>
- 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

IQ Test | English Test | Problem Solving Exam

- PH02 –Phase 2

Applicants who pass the above exams will be promoted to technical and interpersonal skills interview.

Those applicants would be

discussing with the interviewing panel their pre-work -“Before You Apply”- in a one to one interview

- PH03 –Phase 3

A second level interview would be held with ITI board members

Delivery Approach

- 75% face to face Learning| 25 % Online

- Common Hardware

- Common Software

Students' Deliverables

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

16 Software Architecture Track

4 Certifications

Database

Programs Offered

1 .Net Core

MVC

Professional Training Program:

Docker

- Software Architecture

Undergrads Summer Camps

Online Services (MaharaTech)

Graduates Job Profiles

5

Solution Architect

Solution architects design or modify systems architecture to meet certain business needs. They test, integrate, and program software systems to ensure that specific

2 Industry/Academy Stakeholders business issues are solved

MEAN Developer

- IBM determining the structure and design of web pages, striking a balance between
- Huawei functional and aesthetic design, and ensuring web design is optimized for smartphones.
- Microsoft Using Mongo, Express, Angular, Node

Full-Stack Web Developer

Full stack developers are computer programmers who are proficient in both front and back end coding. Their primary responsibilities include designing user

3 Targeted Outcome interactions on websites, developing servers, and databases for website functionality, and coding for mobile platforms..

- Employability

Microsoft Web Solution Developer

o Vodafone Egypt o Fawry

.NET developers create presentable, well-functioning Websites using Microsoft's

o VOIS o Aman

o Orange Egypt o Valeo .NET framework. As such, .NET developers should demonstrate advanced

o IBM o Eva Pharma proficiency in at least one of the applicable coding languages, plus excellent

o Etisalat Misr o TechLabs graphic design skills.

o Attijariwafa Bank o Efg-Hermes

o AlexBank o Link Development Microsoft Desktop Solution Developer

o AAIB o Deliotte .NET developers create presentable, well-functioning Desktop App using Microsoft's

.NET

framework. As such, .NET developers should demonstrate advanced proficiency in at least one of the applicable coding languages, plus excellent graphic design skills.9-Month Professional Training Program

18Software Architecture

1500 Hours

Core Courses

- DevOps

Program Content Structure • Visual C# .Net

- Language Integrated Query (LINQ)

- Entity Framework 6 & Core Soft Skills

Fundamental courses • .Net Design Pattern 5%

Fundamental

- Advanced Javascript

- Client Side Technologies Courses

- Advanced SQL Server Programming

- Operating Systems Fundamentals 27%

- Windows Presentation foundation

- Introduction to Computer Networks & Cyber • IIS Administration

Security • Object Oriented Analysis & Design using UML

- Database Fundamentals • ASP.Net Core MVC

Core

- Data Structures and Algorithms • ASP.Net Core Blazor

courses

- Agile Software Development Methodologies • ASP .Net Web APIs

68%

- HTML5 & CSS3 • Introduction to gRPC on .Net Core

- Introduction to Programming • ASP.Net SignalR

- Introduction to Software Engineering • Introduction to MS - Azure

- Object Oriented Programming Concepts • Unit Testing

- XML Fundamentals • jQuery Fundamentals

- Angular Fundamentals

- Node.js Fundamentals

Soft Skills Courses • MongoDB

- ES.Next

- Progressive Teamwork (Workshop)

- Responsive Web Fundamentals

- Professional Demeanor (Workshop)

- Microsoft Team Foundation Server & VS Architecture Tools

- Best Practices For Remote Working (Workshop)

- Introduction to Software Architecture

- Communication Essentials for Professionals

- Domain Driven Design

- High Impact Presentations

- Event Driven Architecture with Event Sourcing

- Job Seeking Skills

- SOA Design Concepts with N Layered Architecture

- Aspect Oriented Architecture

- SOLID Design Principles & Implementations

- MVVM Light Toolkit Fundamentals

- Test Driven Development

- ORM Concepts and Technique

- Cloud Application Architecture & Scalability

- AWS Fundamentals

- Docker and Kubernetes Fundamentals

- Microservices Architecture

19

- Modern Software Architecture Concepts and techniques
- Mobile Application Development Cross Platform

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3. Targeted Outcome

4. Certification

5. Graduates Job Profiles

Services & 1. Professional Training Program

Content

21Program Admission Arrangement

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 <http://bit.ly/2OGcLix>

- Introduction to Database <https://www.khanacademy.org/computing/computer-programming/sql>

- 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

IQ Test | English Test | Problem Solving Exam

- PH02 –Phase 2

Applicants who pass the above exams will be promoted to technical and interpersonal skills interview.

Those applicants would be

discussing with the interviewing panel their pre-work -“Before You Apply”- in a one to one interview

- PH03 –Phase 3

A second level interview would be held with ITI board members

Delivery Approach

- 75% face to face Learning| 25 % Online

- Common Hardware

- Common Software

Students' Deliverables

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

22Mobile Application Development Cross Platform Track

4

Certifications

Programs Offered

1

Flutter

Professional Training Program: ReactNative

- Mobile Cross Platform Database

Undergrads Summer Camps .Net Core

MVC

Graduates Job Profiles

5

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

2 Industry/Academy Stakeholders platforms. They know when to pursue a fully native solution, and also when to use

JavaScript to maximize code reuse and understandability.

Flutter Developer

- Microsoft 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.

3 Targeted Outcome Using Mongo, Express, Angular, Node

• Employability Full-Stack Web Developer

Full stack developers are computer programmers who are proficient in both front

- o VOIS and back end coding. Their primary responsibilities include designing user

- o IBM interactions on websites, developing servers, and databases for website

- o Etisalat Misr

functionality, and coding for mobile platforms..

- o Attijariwafa Bank

- o Noon MERNDeveloper

- o Sarmad MERN developer will be responsible for writing reusable, testable, and efficient code and

- o Fawry developing and designing front end web applications Using Mongo, Express, React and

- o Eva Pharma Node.

- o Link Development

- o Deloitte Xamarin Developer

- o Qoyod Well-educated Xamarin Developer who is developing the whole life cycle of

- o Giza System 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.9-Month Professional Training Program

24Mobile Application Development Cross Platform

1017 Hours

Core Courses

• Devops

Program Content Structure • Visual C# .Net

- Language Integrated Query(LINQ)

- Entity Framework 6 & Core Soft Skills

Fundamental courses • .Net Design Patterns

Fundamental

- Advanced JavaScript

- Client Side Technologies Courses

- Advanced SQL Server Programming

- Operating Systems Fundamentals

- Windows presentation foundation

- Introduction to Computer Networks & Cyber • IIS Administration

Security • Object Oriented Analysis & Design using UML

- Database Fundamentals • ASP.Net Core MVC

Core

- Data Structures and Algorithms • ASP.Net Core Blazor

courses

- Agile Software Development Methodologies • ASP .Net Web APIs

- HTML5 & CSS3 • Introduction to gRPC on .Net Core

- Introduction to Programming • ASP.Net SignalR

- Introduction to Software Engineering • Introduction to MS - Azure
- Object Oriented Programming Concepts • Unit Testing
- XML Fundamentals • jQuery Fundamentals
- Angular Fundamentals
- Node.js Fundamentals

Soft Skills Courses • MongoDB

- ES.Next
- Progressive Teamwork (Workshop)
- Responsive Web Fundamentals
- Professional Demeanor (Workshop)
- Source Control
- Best Practices For Remote Working (Workshop)
- React JS
- Communication Essentials for Professionals
- React Native
- High Impact Presentations
- Flutter Development
- Job Seeking Skills
- Xamarin Development
- Firebase
- MVVM Light Toolkit Fundamentals

25VFX Compositing

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3. Targeted Outcome

4. Certification

5. Graduates Job Profiles

Services & 1. Professional Training Program

Content

2Program Admission Arrangement

Who May Apply?

• Graduates of:

o "All graduates from all colleges of higher education - starting from a grade of 'Pass' and above."

Prerequisites

"We highly recommend that candidates review the following courses prior to applying for admission to our program."

"The courses cover multiple points in the specialization areas of VFX Compositing Track."

- Pixar in a Box <https://www.khanacademy.org/computing/pixar>
- Learn Nuke <https://learn.foundry.com/nuke>
- Create incredible motion graphics and visual effects. <https://helpx.adobe.com/after-effects/tutorials.html>
- Autodesk Maya 101 Tutorials : <https://www.youtube.com/playlist?list=PLD8E5717592CF5C26>
- Maya Tutorials by LinkedIn Learning, with Lynda.com content : <https://www.autodesk.com/support/technical/article/caas/tsarticles/ts/dVnQqbvL8wT37prRC3Y8d.html>
- 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

IQ Test | English Test | Problem Solving Exam

- PH02 –Phase 2

Applicants who pass the above exams will be promoted to technical and interpersonal skills interview.

Those applicants would be

discussing with the interviewing panel their pre-work -“Before You Apply”- in a one to one interview

- PH03 –Phase 3

A second level interview would be held with ITI board members

Delivery Approach

- 50 % face to face Learning| 50 % Online

- Common Hardware

- Common Software

Students' Deliverables

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

3 VFX Compositing

4 Certifications

Programs Offered • Autodesk Maya Certified User

1

Professional Training Program:

- VFX Compositor

Graduates Job Profiles

5

- On-set supervisor

VFX Compositor:

- Match moving Artist

A VFX Compositor is responsible for seamlessly integrating visual effects elements into live-action footage.

- Matte Painting Artist

They work closely with the VFX Supervisor and other team members to achieve the desired look and feel of

- Color Grading Artist the final shots. The VFX Compositor uses their expertise in compositing techniques, color correction, and

Intensive Code Camps: image manipulation to create realistic and visually appealing visual effects that enhance the overall visual

Undergrads Summer Camps storytelling.

Online Services (MaharaTech, ITI Tech Leap

On-set supervisor:

An On-set Supervisor plays a crucial role in the production process, particularly during the shooting of scenes

involving visual effects. They collaborate with the director, cinematographer, and VFX team to ensure that the

necessary elements are captured on set to facilitate the seamless integration of visual effects in post-production. The On-set Supervisor provides technical guidance, oversees the acquisition of accurate data for

camera tracking and lighting, and ensures that the practical and digital elements align effectively to achieve the

2 Industry/Academy Stakeholders

desired visual effects.

Matchmoving Artist:

- Autodesk • Concave art production

A Matchmoving Artist utilizes specialized software and techniques to track the movement of the camera and

- Mercury visual solutions

objects in live-action footage. By accurately capturing camera motion and object tracking data, they enable the

- Trend VFX integration of 3D elements seamlessly into the scene. Matchmoving Artists work closely with the VFX team to

- Squids VFX ensure the proper alignment and synchronization of virtual assets with the live-action footage, contributing to
- The Crew the overall realism and believability of the visual effects.

Matte Painting Artist:

3 Targeted Outcome A Matte Painting Artist creates highly detailed, photo-realistic background or environment artwork for film and visual effects productions. Using a combination of traditional painting skills and digital tools, they craft

- Employability imaginary or enhanced environments that cannot be easily or practically filmed on set.

Matte Painting Artists

- o Mercury visual o Monkeys | Visual work closely with the production team and VFX Supervisor to understand the desired look and feel of the scene and create stunning visual backdrops that enhance the overall cinematic experience.

solutions Effects and Animation

- o Trend VFX o Gemini studio

Color Grading Artist:

- o Squids VFX o Blue Monk

A Color Grading Artist is responsible for enhancing the visual aesthetics and mood of the footage through color

- o The Crew o Paradox VFX

correction and grading techniques. They work closely with the cinematographer, director, and VFX team to

- o Concave art o Black Horse VFX ensure consistency and achieve the desired visual style for the final product. Color Grading Artists have a keen

production eye for color theory, storytelling, and visual impact, and they utilize their technical skills to manipulate color and

- o Aroma Graphics tone, creating a cohesive and visually striking look for the film or visual effects project.

- o Umbrella studio9-Month Professional Training Program

5VFX Compositing

945 Hours

Program Content Structure VFX On Set

and Match Film Language Life Skills

moving fundamentals Courses

Film Language fundamentals Compositing Fundamentals 13% 8% 7%

After Effects

- CG Introduction • Introduction to Compositing VFX and

- Script Writing for VFX • Nuke 3D and Projection 3D Motion

- Storyboard Fundamentals • Nuke: Grading and Integration Essentials Graphics

- Film Language and Directing for VFX • Nuke: Keying for VFX 7%

- Nuke: Painting 16%

Video and

- Nuke: Rotoscoping

Life Skills Courses Sound and

- Nuke: Tracking

Coloring

- Communication Essentials for Professionals • Compositing applications 8%

- High Impact Presentations • Portfolio Making

Digital Art

- "Progressive Teamwork and Leadership

Digital Art Essentials Essentials

Skills(Workshop)"

- Art History 8%

- "Professional Demeanor(Workshop)" Compositing

- Digital Matte Painting
- "Best Practices For Remote Fundament
- Digital Painting
- Working(Workshop)" als
- Job Seeking Skills 3D Essentials for VFX 33%
- Freelancing For Digital Arts
- Maya Fundamentals
- 3D for VFX Production

After Effects VFX and Motion Graphics • Look Development for VFX Production

- After Effect Fundamentals
- Introduction to Motion Graphics for VFX VFX On Set and Match moving Job Profile
- Cinematic production Fundamentals • VFX Compositor
- Cinematography: Color Theory and Light for VFX • On-set supervisor

Video and Sound and Coloring

- Cinematography: Composition Theory for VFX • Match moving Artist
- Video Editing for VFX • On-Set Supervision
- Matt Painting Artist
- Color Grading • Match Moving
- Color Grading Artist
- Sound Editing and Mixing

6Wireless Communication Engineering

Executive Summary

2023–2024Content

Program 1. Who May Apply?

Admission 2. Prerequisites

3. Selection Process

Arrangement

4. Delivery Approach

5. Student's Deliverables

Market Needs 1. Programs Offered

and Stakeholders 2. Industry/Academy Stakeholders

3. Targeted Outcome

4. Certification

5. Graduates Job Profiles

Services & 1. Professional Training Program

Content

2Program Admission Arrangement

Who May Apply?

- Graduates of:

o Communications Engineering

Prerequisites

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

- Mathematics Fundamentals (Linear Algebra - Probabilities)
- Digital modulation and digital communication Fundamentals
- Programming concepts.
- 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

IQ Test | English Test | Problem Solving Exam

- PH02 –Phase 2

Applicants who pass the above exams will be promoted to technical and interpersonal skills interview.

Those applicants would be

discussing with the interviewing panel their pre-work -"Before You Apply"- in a one to one interview

- PH03 –Phase 3

A second level interview would be held with ITI board members

Delivery Approach

- 75% face to face Learning| 25 % Online

Students' Deliverables

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

3 Infrastructure Tracks

4 Certifications

Huawei – 5G

Programs Offered

1 Huawei – AI

IBM – IoT

Professional Training Program:

Testing Foundation

- Wireless Communication Engineering

Intensive Code Camps:

- LTE Networks Engineering

Undergrads Summer Camps

2 Industry/Academy Stakeholders 5 Graduates Job Profiles

Wireless Communication Engineer

- Si-Vision Responsible for analyzing, developing and maintaining wireless telecommunications.

Excellent

- STMicroelectronics hands on experience on LTE, MIMO and Cognitive radio & spectrum sensing.

- Open Valley

- Orange Innovation DSP System Design

Egypt Design and implement DSP software, modeling of DSP algorithms and, configure, integrate and validate out of the shelf solutions.

DSP Software Engineer

Use MATLAB simulation and real-time DSP implementations to design and develop leading-edge algorithms targeted for fixed-point DSP processors in various areas of signal processing

3 Targeted Outcome

with special focus on wireless communication systems.

- Employability

Protocol Stack developer

- Si-Vision • Alkan

- STMicroelectronics • Valeo Develop communication protocols in c/c++, analyze protocols for required specs and provide

- Open Valley • Waseela assessments.

- Coherent

- Orange Innovation Egypt

- Vodafone

- We

- Dell

- Huawei 9-Month Professional Training Program

5 Wireless Communication Engineering

969 Hours

Program Content Structure Soft Skills

5%

Core

Fundamental courses

Core Courses

for Wireless Communication Engineer courses for

Fundament WCE 38%

- Track Orientation Workshop • Linux Operating systems

al Courses

- Operating Systems Fundamentals • Embedded C 25%

- Database Fundamentals • Introduction to IOT
- Data Structures and Algorithms • Wireless Communication Fundamentals
- C Programming Language • Fundamentals of Wireless Mobile Networks
- Python Fundamentals • LTE And LTE Advanced
- Object-Oriented Programming using C++ • ORAN Workshop
- Introduction to MATLAB for Engineers
- Fundamentals of Linear Algebra
- Fundamentals of Probabilities for Communication Engineers
- Fundamentals of Signal Processing
- Freelancing Basics for DSP Software Engineer Core

Core Courses

courses for

- Advanced Wireless Communication DSP
- Wireless Protocols and standards (LoRaWAN) 32%
- Wireless Receiver Design

Soft Skills Courses • Software Defined Radio I

- Software Defined Radio II
- Progressive Teamwork (Workshop)
- Hardware Interfacing with Wireless modules
- Professional Demeanor (Workshop)
- Best Practices For Remote Working (Workshop)
- Communication Essentials for Professionals
- High Impact Presentations
- Job Seeking Skills

6

I C C

INTENSIVE ODE AMP

3D MODELING

2021/2022

Be one of our Graduates Family

Track Overview

Information Technology Institute

People Develop Countries .. We Develop People3D Modeling

3D Modeling for environment artist's role is that of world builder. The mission is nothing less than to craft the spaces that will create a sense of immersion, help tell a story, and work hand-in-glove with level design and gameplay in 3D Games. In addition to providing students with an inroad to the games industry, this track also acts as an ideal primer for artists looking at more specialized hard surface modeling or digital matte painter roles in the film and animation industries.

All University Graduates who have artistic Background or .

Background in 3D Programs software

Around 3 months (learning and project).

Blended between Self-paced, Synchronous Learning and

Guided Practices with a Project Based Focused Journey.

B Y A

EFORE OU PPLY

we recommend that Candidates should have a firm understanding

3D Modeling in Maya software or any other 3D Application we

recommend one the following courses before the Candidates apply

to join our program:

<https://www.cgspectrum.com/resources/free-maya-course-online>

<https://simplymaya.com/free-tutorials/>

[https://area.autodesk.com/learn/maya-intro/3D Modeling](https://area.autodesk.com/learn/maya-intro/3D%20Modeling)

The Graduate will be a 3D Artist who is responsible for:

Creating 3D models, used for a variety of mediums including video games, 3D animation movies, 3D environment for VFX, illustration, 3D Product

Presentations, and commercial advertising.

- 3D Environment Artist

- 3D Look Development artist

Candidates are working together using a variety of 3D and 2D CG Software:

Autodesk Maya

Arnold Renderer

Pixologic Zbrush

Substance Painter

Adobe Photoshop

3D Modeling project will transform creative concepts and directions into

expressive 3D models considering the environmental scenes that can be used in

high performing awareness and campaigns or 3D environment for 3D animation

or VFX movie. 3D Modeling

Introduction to CG

Introduction to CG

14%

Adobe Photoshop Fundamentals

Adobe Illustrator Fundamentals.

ART Essentials

12%

Art History.

Digital Painting

Environment Design

Modeling Fundamentals

Introduction to Maya

28%

Hard surface Modeling

Zbrush For Environment Creations

Look Development

Texturing Fundamentals

34% Shading Fundamentals

Lighting and Rendering Fundamentals

Portfolio Making

Soft Skills Courses

12 % Communication Skills

Interviewing Skills

C.V writing

Freelancing

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THE RESEFUL NFORMATION

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INTENSIVE CODE CAMP

A I T E

ADVANCED ESSENTIALS

2021/2022

Be one of our Graduates Family

Track Overview

Information Technology Institute

People Develop Countries .. We Develop People Advanced IT Essentials

ITI Intensive Code Camp – Advanced IT Essentials is a product

based program that will empower you to learn IT basics,

Mobile Devices components, and Networking & Operating

Systems.

All University Graduates with prerequisites of basic understanding of Information Technology, and Computer basics.

280 Hours around 3 months (learning and project).

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

B Y A

EFORE OU PPLY

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

- www.youtube.com/channel/UCiV37YIYars6msmlQXopleQ
- www.youtube.com/watch?v=hZ2QiiHyTnU&ab_channel=IT%26Software
- [www.youtube.com/watch?v=cNwEVYkx2Kk&ab_channel=NetworkDirectionAdvanced IT Essentials](https://www.youtube.com/watch?v=cNwEVYkx2Kk&ab_channel=NetworkDirectionAdvanced+IT+Essentials)
- IT Specialist
- IT Professional
- Network Specialist
- Laptop with good internet connection

Candidates are working together to create innovated projects through the learning journey

Advanced IT Essentials

Technical Support Fundamentals

10% Assemble a computer from scratch.

Choose and install an operating system on a computer

Understand what the internet is & How it works

Computer Networking

Learn network services like dns and dhcp

33%

Understand cloud computing

Grasp powerful network troubleshooting

Operating Systems & You

Navigate the Windows and Linux

24%

Install, configure, and remove software

Utilize operating system knowledge

System Administration & IT Infrastructure

18% Network Fundamentals & Internet Accessing

Security threats & Solutions

IT Security & Troubleshooting Skills

Various authentication systems & types

15%

Best practices for securing a network

Troubleshooting skills

O U I

THESEFUL INFORMATION

This program is a part of ITI role & vision which conducting regular focus groups with industry leaders to better understand existing and future market demand, and provide training to meet this demand. In addition, our yearly job fair provide us with updated insights of what's needed today and what's missing and expected for tomorrow.

INTENSIVE ODE AMP

AWS /S

RE TART

2021/2022

Be one of our Graduates Family

Track Overview

Information Technology Institute

People Develop Countries .. We Develop People AWS re/Start ITI Intensive Code Camp – (AWS re/Start) is a full-time, skills development program that prepares individuals for an entry-level professional position in the cloud. Through real-world, scenario-based learning, hands-on labs, and coursework, learners gain the technical skills they need for junior cloud roles.

All University Graduates with prerequisites of basic understanding of IT, networking, and cloud computing.

420 Hours around 3 months (learning and project).

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

B Y A

EFORE OU PPLY

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

<https://portal.netdevgroup.com/learn/cloud-virt-concepts> AWS re/Start

- Upon completion of the program, AWS re/Start graduates are suitable candidates for entry-level cloud roles in areas such as cloud operations, site reliability, tier 1 infrastructure support, or devops.

Windows or Linux PC

Candidates are working together in one of the following

Suggested Projects:

- Operating various AWS cloud services AWS re/Start

%55 Cloud Foundations

Introduction to Cloud (basic computing and introduction to AWS)

Linux Fundamentals

Networking Fundamentals

Security Fundamentals

Python Programming

Databases Fundamentals

AWS Core Services

%34

Well-Architected Framework Computing-Database-Services

Understanding-Systems- Networking

Operations-on-AWS Storage-and-Archiving

Tooling-and-Automation Monitoring-and-Security

Computing-Servers Managing-Resource-

Computing-Scaling-and- Consumption

Name-Resolution Creating-Automated-and-

Computing-Containers-and- Repeatable-Deployments

Serverless

Employability Skills and Event Sessions

%11

Self-Assessment – Who Am I?

Resume preparation

Amazon Leadership

Elevator Pitch

Principles

Networking skills

Communication Skills

Hiring Process

Goal Settings

Interview Process
 Teamwork and Collaboration
 Explore Cloud Job Postings
 Technical Thought Process
 Explore Cloud Possibilities
 Digital Presence
 Community sessions
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 THER SEFUL NFORMATION
 - None! C C
 INTENSIVE ODE AMP
 BI S
 PECIALIST
 2021/2022
 Be one of our Graduates Family
 Track Overview
 Information Technology Institute
 People Develop Countries .. We Develop PeopleBI Specialist
 ITI Intensive Code Camp – (BI Specialist)
 Specialization - is a product based program that will
 empower you to learn Microsoft Business
 Intelligence Methodologies and Techniques for
 Creating Advanced Dashboards based on Data
 Analytics by using Microsoft Analytical and
 Presentation Tools
 All University Graduates especially Computer Science
 and Engineering Graduates and Applicants willing to
 expand their skills and knowledge.
 330 Hours around 3 months (learning and
 project).
 Blended between Self-paced, Synchronous Learning
 and Guided Practices with a Project Based Focused
 Journey.
 20% Self-paced | 40% Online | 40% Guided
 Practices
 Your Mentor supports throughout all the learning
 journeyBI Specialist
 B Y A
 EFORE OU PPLY
 Candidates will have to complete the following prerequisite
 courses to join our program
 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>)
 ITI values that could be found here: <http://www.iti.gov.eg/Site/AboutUs>
 BI Specialist & Big Data Developer
 Microsoft Visual Studio
 Microsoft SQL Server
 PowerBI

Candidates are working together in one of the following

Suggested Project:

Dashboard Analytics for Examination System

Connected with Social Media Platforms (Facebook, Twitter, Instagram ,...etc.)

27%

Programming Fundamentals

Introduction to Programming

XML Fundamentals

22%

Microsoft Database Concepts

Database Fundamentals

Advanced SQL Server Programming & Administration

29% BI Core Concepts & Tools

Microsoft SQL Server Business Intelligence

Introduction to Data Mining Algorithms

PowerBI

Introduction to Cloud Computing

Introduction to Big Data

SoftSkills & FreeLancing

22%

FreeLancing

Business Communication Skills

Interviewing Skills

Effective Presentation Skills

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THESEFUL INFORMATION

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INTENSIVE ODE AMP

Cybersecurity Associate

2021/2022

Be one of our Graduates Family

Track Overview

Information Technology Institute

People Develop Countries .. We Develop PeopleCybersecurity Associate

In this track, ITI Intensive Code Camp – (Cybersecurity

Associate) Specialization - students will learn the fundamentals

of cybersecurity and identify the concepts required to recognize

and potentially mitigate attacks against enterprise networks as

well as mission critical infrastructure.

Graduates of:

- Computer Engineering
- Communications Engineering
- Computer Science

380 Hours around 3 months

Blended between Self-paced, Synchronous Learning

B Y A

EFORE OU PPLY

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

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

- Introduction to computer networks

<https://maharatech.gov.eg/course/view.php?id=37>

- Introduction to cybersecurity could be found at MaharaTech:

<https://maharatech.gov.eg/course/view.php?id=37> or other resources that you prefer

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

A Network Security Engineer

is an essential part of any large (and many mid-sized) business' overall

technology team. A network security engineer is involved in the

provisioning, deployment, configuration, and administration of many

different pieces of network-and security-related hardware and software.

These include firewalls, routers, switches, various network monitoring

tools, and VPNs (virtual private networks). These engineers also regularly

perform network-based security risk assessments

Output Evaluation and KPIs

Palo Alto Networks Certified Cybersecurity Associate (PCCSA)

All Track Open

Red Hat Certified System Administrator

Red Hat Certified System Administrator (RHCSA) Exam (EX200) Cybersecurity Associate

Networks and Security Essentials

80 Hrs. Computer Networks Fundamentals*

40%

24 Hrs. Palo Alto-Cybersecurity Foundation

24 Hrs. Palo Alto -Cybersecurity Essentials

24 Hrs. Palo Alto -Cybersecurity Gateway

Systems Administration

24%

30 Hrs. MS Windows Administration

60 Hrs. Red Hat Administration I and II

Advanced Firewall Technology

24 Hrs. Securing Networks with Cisco Firepower Next

12%

Generation Firewall

24. Hrs. FortiGate Security

Development

8%

30 Hrs. Introduction to Python

Life Skills

16% 30 Hrs. Effective Communication and Presentation Skills

30 Hrs. Interviewing Skills

O U I

THESEFUL INFORMATION

Interconnecting Cisco Networking Devices Part 1, Interconnecting Cisco

Networking Devices Part 2 I C C

INTENSIVE ODE AMP

DEVOPS TRACK

2021/2022

Be one of our Graduates Family

Track Overview

Information Technology Institute

People Develop Countries .. We Develop People DevOps

A DevOps Engineer works with developers and the IT staff to oversee the code releases, combining an understanding of both engineering and coding.

From creating and implementing systems software to analyzing data and

improving existing ones, a DevOps Engineer increases productivity in the

workplace. They understand the software development life cycle and have a

clear understanding of various automation tools for developing digital

pipelines (CI/ CD pipelines).

All University Graduates with prerequisites of having a first degree from a recognized university or institution of higher education.

420 Hours around 3 months (learning and project).

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

B Y A

EFORE OU PPLY

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

- Programming fundamentals at ocw.mit.edu/courses/intro-programming/
- OOP Fundamentals at www.tutorialspoint.com/cplusplus/cpp_quick_guide.htm
- Web Fundamentals (HTML5, CSS3, javascript) at www.maharatech.gov.eg
- Linux Fundamental at www.guru99.com/introduction-linux.html
- Python Fundamental at www.maharatech.gov.eg
- Introduction to cloud at <https://www.pluralsight.com/courses/cloud-computing-big-picture>
- Introduction to AWS at <https://www.pluralsight.com/courses/aws-certified-solutions-architect-associate>
- Database Fundamentals at www.maharatech.gov.eg DevOps

•

DevOps Engineer.

Hardware: Personal laptop with 8 GB RAM, Core i5

Software: Ubuntu or any Linux distribution

Candidates may work together with other tracks in one of the following suggested projects: (E-commerce application, Social platform or Enterprise ERP systems).

And their role will be deploying and monitoring the project using devops tools like (Docker, Kubernetes, Jenkins, Ansible, AWS, Google Cloud Platform, DevOps

DevOps

Computer Network

70%

Python Programming

Terraform Cloud Remote State Management

Agile and DevOps Fundamentals

Cloud Computing Fundamentals

Configuration Management

Amazon PaaS Web Services

Application Containers

Continuous Delivery

Introduction to Apache Web Server

Microservices Architecture

Google Cloud Platform

Databases

3.3% MySQL Database

Administration

Red Hat System Administration I

15%

Introduction to Shell Script

Version Control Systems

Employability and Soft skills

Effective Communication Skills

11.7%

Effective Presentation Skills

Effective Interviewing Skills

O U I

THESEFUL INFORMATION

Track graduates will be able to join different DevOps teams in national and multi-national companies like (Vodafone, Etisalat, Orange labs, Nagwa, Fawry, Swvl, Egyptian Banks, Elmenus, IBM, Amazon, Paymob, Incorta, Fixed Solutions. I C C

INTENSIVE ODE AMP

.NET F

ULL STACK

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DEVELOPMENT

2021/2022

Be one of our Graduates Family

Track Overview

Information Technology Institute

People Develop Countries .. We Develop People.NET Full Stack Development

ITI Intensive Code Camp – (.Net Full stack Development)

Specialization - is a product based program that will empower you to learn advanced theoretical and practical skills. The program combines the study of fundamental aspects of software engineering and programming concepts with a hands-on approach. The students could be promoted for Microsoft Desktop Solution Developer and Microsoft Web Solution Developer Jobs, and could have Microsoft Certified Solutions Developer (MCSD) certificate.

All University Graduates especially Computer Science and Engineering Graduates and Applicants willing to expand their skills and knowledge.

432. Hours around 3 months (learning and project).

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

B Y A

BEFORE OUR PPLY

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

- An Introduction to Programming by studying this course at Coursera “An Introduction to Programming”

<https://www.coursera.org/learn/intro-programming>

- Computer Programming Tutorial at

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

- Intro to SQL: Querying and managing at

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

- other resources that you prefer Web Fundamentals at

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

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

NET Full stack Development

- .NET Full stack Developer

- .NET Web Application Developer

Microsoft Visual Studio

Microsoft SQL Server

Visual Studio Code

Candidates are working together in one of the following

Suggested Projects:

- Otlob

- JUMIA

- Booking.NET Full stack Development

Software Development

10%
Fundamental
Object Oriented Programming
using C#
Frontend Web Development
22% introduction to Web Technologies
(HTML& CSS)
Java Script
HTML 5.0 & CSS3
Responsive Web Design
Microsoft .NET Core Programming
29%

Visual C# .NET
LINQ & Entity Framework
Microsoft SQL Server
Programming
10% MEAN Stack Development
ES Next
Angular Fundamentals
Microsoft Web Applications

17%
Development
ASP. Net MVC Core
ASP. Net Web API
Soft skills

12%
Communication skills
Presentation skills
Interviewing skills
Freelancing skills

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NTENSIVE ODE AMP
e-Learning Specialist
2021/2022

Be one of our Graduates Family
Track Overview

Information Technology Institute
People Develop Countries .. We Develop Peoplee-Learning Specialist
ITI Intensive Code Camp – e-Learning Specialization - is a product
based program that will empower you to learn how to design and create
digital learning and education materials in various forms depending on the
clientrequirementsandendusercontext.
Work outputs of an e-learning content developer include stacks of learning
solutions including simulation products, audiovisual learning packages, and
writtencontentusingdifferentscriptinglanguagesandtools.

All University Graduates with prerequisites of web development
Preferred faculties :Graduates of Computer science and Computer, engineering
faculties.

Education and Arts Faculties.
354 Hours around 3 months (learning and project).
Blended between Self-paced, Synchronous Learning and
Guided Practices with a Project Based Focused Journey.

B Y A

EFORE OU PPLY

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

- HTML & CSS Fundamentals by studying this course at
- Learn HTML & CSS
- Javascript
- at <http://www.maharatech.gov.ege>-Learning Specialist
- E-Content Developer
- E-Learning Specialist
- None

Candidates are working together in one of the following

Suggested Projects:

- Content Development
- AR & VR In Education
- LMS Featurese-Learning Specialist

e-Learningconcepts

E-Learning Fundamentals

23%

e-Learning standards

Game Design for Learning

Instruction Design Fundamentals

UI/UX Basics

e-Content Design Standards

37% Content Development

Client-Side Technologies Fundamentals

XML and Allied technologies

e-Content Development for Mobile

Fluid Web & Responsive Design

HTML5

JavaScript & Dynamic HTML

JqueryFundamentals

Three JS Library

11%

e-Learning Systems

WordpressCMS

e-Learning Technologies

17%

Authoring Tools

Articulate Storyline

Adobe Animate CC

Adobe Audition

Soft Skills

Freelancing Skills

12%

Presentation & Communication Skills

Interviewing SkillsINTENSIVE CODE CAMP

FRONT-END AND CROSS PLATFORM

MOBILE DEVELOPER

2021/2022

Be one of our Graduates Family

Track Overview

Information Technology Institute

People Develop Countries .. We Develop Peopleand Cross-Platform

Front-end

Mobile Developer

ITI Intensive Code Camp – front-end and cross platform
Specialization - is a product based program that will empower
you to learn the latest technologies in front-end track and also
the mobile cross platform technologies and tools.

All University Graduates with prerequisites of basic programming
skills, HTML and CSS.

432.Hours around 3 months(learning and project).

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> and Cross-Platform

Front-end

Mobile Developer

-

UI/UX developer

- JavaScript Front-end developer

- Angular developer

- React.js developer

- Cross platform mobile app developer

Each course lists the required programs installation

- Android Studio

- VS Code

- JDK

- Android SDK

- Node.js

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

-

Yodawi

-

Booking

-

Souq

-

EventBrite

-

Vezeeta and Cross-Platform

Front-end

Mobile Developer

Core and Fundamentals

Object oriented programming concepts

15%

Database fundamentals

JavaScript Programming
23% JavaScript Fundamentals
Advanced JavaScript
ES.Next
Node.js Fundamentals
Cross platform Mobile and Application Development
11% React native
Flutter development
Front-end Web Development
31% HTML5 and CSS3
UX design Principles for Mobile Apps
Responsive Web Fundamentals
Angular Fundamentals
React.js
Web Development Tools and Management Techniques
6%
JavaScript unit testing frameworks
Introduction to JavaScript packaging and building tools
Version control
Soft skills
Communication skills
14%

Presentation skills
Interviewing skills
Freelancing skills

OTHER USEFUL INFORMATION

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NTENSIVE ODE AMP

F D

RONTEND EVELOPMENT

2021/2022

Be one of our Graduates Family

Track Overview

Information Technology Institute

People Develop Countries .. We Develop PeopleFrontend Development

ITI Intensive Code Camp – Frontend developer develops the web application that responsible for the quality of everything the end user deal with, such as the performance of the application, less number of requests are sent to server, the loading of the web site and the images that are contained in the pages, the error handling, and the responsive of the web site (support of smart phones). As we understand, the user-facing or client-side functionality is the job of a front-end developers. Using a combination of markup languages (HTML), design (CSS), and client-side scripts (javascript and AJAX) and frameworks (bootstrap, Angular, React, Vue js, etc.), the front-end developer creates the environment for everything that users see and touch: content, layout, and interaction.

All University Graduates with prerequisites of the following: he must have a first degree from a recognized university or institution of higher education, or provide documentation indicating that they will earn such a first degree before enrolment in the 3-month program. Admission Requirements for Students vary depending on the student's area of study.

420 Hours around 3 months (learning and project).
Blended between Self-paced, Synchronous Learning and
Guided Practices with a Project Based Focused Journey. Frontend Development

BYA

BEFORE OUR PPLY

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

- Web Fundamentals at <http://www.maharatech.gov.eg>

<https://alligator.io/css/> <https://css-tricks.com/>

- <https://tutorialzine.com/tag/css>. Javascript at

<http://www.maharatech.gov.eg>, W3schools,

<https://www.freecodecamp.org/learn/?messages=success%5B0%5D%3DSuccess%2521%2520You%2520have%2520signed%2520in%2520to%2520your%2520account.%2520Happy%2520Coding%2521>

- Frontend handbook <https://skillcrush.com/blog/skills-to-become-a-front-end-developer/>

- Adobe Photoshop at

<https://helpx.adobe.com/photoshop/tutorials.html>

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

www.iti.gov.eg/Site/AboutUs

- UI Developer: Implements visual and interactive elements that users engage with, develop user interfaces and front-end components. They know how to convert an existing design into code using HTML, CSS that help in build a static web structure, which determine the presentation of a page.

- JavaScript Developer: Develops web application using HTML, CSS and JavaScript.

- Frontend Developer: Develops the interaction between the users and the application using the latest JavaScript frameworks and technologies that are used in the local and international markets such as Angular, React or Vue. They are great for building complex user interfaces. They learn how to implement their frontend application and consider the cross browser development when using different browsers. They have an experience with APIs to integrate their work with the backend developers. Frontend Development

Git, HTML5 Boilerplate, Google Fonts, Bootstrap, tailwind CSS, SASS, jQuery, Vue.js, Chrome Dev Tools, W3C Markup Validation Service, CodePen.

Candidates are working 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). Frontend Development

Essentials

Database Fundamentals

15%

Introduction to Object Oriented

Programming using C++

Introduction to User

Experience

SEO Techniques

Core

HTML&CSS Workshop

Client-side Technology
70% Advanced JavaScript & AJAX
HTML5 Application
Development Fundamentals
CSS3
jQuery Fundamentals
Responsive Web Design
Fundamentals
Bootstrap Fundamentals
ES .Next
Introduction to Typescript
JavaScript Data Structures and
Algorithms
Angular Fundamentals
Advanced JavaScript
Framework using Angular
Integration between backend
and frontend
JavaScript Design Pattern
Unit Testing
Reactjs
Source Control

Life Skills
15% Effective Communication and
Presentation Skills
Interviewing Skills

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ULL STACK EVELOPMENT
PHP
USING

2021/2022

Be one of our Graduates Family
Track Overview

Information Technology Institute

People Develop Countries .. We Develop PeopleFull stack Development using
PHP

ITI Intensive Code Camp – (Full stack development using
PHP) Specialization - is a product based program that will
empower you to learn how to build a complete responsive
web application using HTML, CSS, JavaScript, Frontend
frameworks like React or Angular or Vuejs, MySQL, PHP
and Laravel

All University Graduates with prerequisites of having a first
degree from a recognized university or institution of higher
education.

585 Hours around 3 months (learning and project).

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

B Y A

EFORE OU PPLY

Candidates will have to complete the following prerequisite courses

to join our program:

- Programming fundamentals at ocw.mit.edu/courses/intro-programming/
- OOP Fundamentals at www.tutorialspoint.com/cplusplus/cpp_quick_guide.htm
- Web Fundamentals at www.maharatech.gov.eg
- Linux Fundamental at www.guru99.com/introduction-linux.html
- PHP Fundamental at www.maharatech.gov.eg or other resources that you prefer
- ITI values that could be found here: [http:// www.iti.gov.eg/Site/AboutUs](http://www.iti.gov.eg/Site/AboutUs) Full stack Development using PHP

- Full stack with PHP developer
- PHP Backend Developer

Hardware: Personal laptop with 8 GB RAM, Core i5

Software: Ubuntu or any Linux distribution

Candidates are working together in one of the following

Suggested Projects (Web application):

- Upwork
- Facebook
- Wikipedia

Full stack Development using PHP

Software development using PHP

PHP

61%

Advanced PHP (Laravel)

PHP CMSs

Nodejs

Client – Side technologies

HTML5 & CSS3

Bootstrap

JQuery

Frontend frameworks(Angular or React or Vuejs)

UX/UI design basics

Databases

11%

Database Fundamentals

MYSQL Database

Administration

13%

Red Hat System Administration I

Version Control Systems

Apache Web Server

Employability and Soft skills

Effective Communication Skills

15%

Effective Presentation Skills

Interviewing Skills

Freelancing Skills

O U I

OTHER SEFUL INFORMATION

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

Industry partners:

Vodafone, Yacoota, Orange, Valeo, Wazzuf, Etisalat, IBMI C C

INTENSIVE DEVELOPMENT

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FULL STACK DEVELOPMENT

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2021/2022

Be one of our Graduates Family

Track Overview

Information Technology Institute

People Develop Countries .. We Develop PeopleFull Stack Development using Python

ITI Intensive Code Camp – (Full stack development using Python) Specialization - is a product based program that will empower you to learn how to build a complete responsive web application using HTML, CSS, JavaScript, Frontend frameworks like React or Angular, PostgreSQL, Python, Django and Flask.

All University Graduates with prerequisites of having a first degree from a recognized university or institution of higher education.

600 Hours around 3 months (learning and project).

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

B Y A

EFORE OU PPLY

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

- Programming fundamentals at ocw.mit.edu/courses/intro-programming/
- OOP Fundamentals at www.tutorialspoint.com/cplusplus/cpp_quick_guide.htm
- Web Fundamentals at www.maharatech.gov.eg
- Linux Fundamental at www.guru99.com/introduction-linux.html
- Python Fundamental at www.maharatech.gov.eg or other resources that you prefer
- ITI values that could be found here: [http:// www.iti.gov.eg/Site/AboutUsFull Stack Development using Python](http://www.iti.gov.eg/Site/AboutUsFull%20Stack%20Development%20using%20Python)
- Full stack with Python developer
- Python Backend Developer
- Odoo developer

Hardware: Personal laptop with 8 GB RAM, Core i5

Software: Ubuntu or any Linux distribution

Candidates are working together in one of the following

Suggested Projects (Web application):

- Instagram
- Uber
- Netflix
- PinterestFull Stack Development using Python

Software development using Python

Python Basics & Object-Oriented Programming

57%

using Python

Python Frameworks (Flask, Django)

Open-Source ERP and CRM System (Odoo)

Client – Side technologies

HTML5 & CSS3

Bootstrap

JQuery

Frontend frameworks(Angular or React)

UX/UI design basics

Databases

10%

Database Fundamentals

PostgreSQL Database

Administration

Red Hat System Administration I

18%

Version Control Systems

Bash shell scripting

Apache

Employability and Soft skills

Effective Communication Skills

15%

Effective Presentation Skills

Interviewing Skills

Freelancing Skills

O U I

THESEFUL INFORMATION

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

Industry partners:

Vodafone, Yaoota, Orange, Valeo, Wazzuf, Etisalat, IBMI C C

INTENSIVE CODE CAMP

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EO PATIAL ECHNOLOGIES

2021/2022

Be one of our Graduates Family

Track Overview

Information Technology Institute

People Develop Countries .. We Develop PeopleGeo-Spatial Technologies

ITI Intensive Code Camp – Geo-Spatial Technologies

Specialization - is a product based program that will empower you to learn

Create a tool to query, analyze and map data in support of the spatial decision making process.

The flexibility of dealing with different commercial and open source GIS packages.

Creating an automated decision making system to enhance the organization resource management

Developing Geo-spatial Solutions using the latest technologies that fit with the current necessities.

All University Graduates with prerequisites of GIS Concepts

396 Hours around 3 months (learning and project).

Blended between Self-paced, Synchronous Learning and

Guided Practices with a Project Based Focused Journey.Geo-Spatial Technologies

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EFORE OU PPLY

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

- “Career Road Map for GIS (Geographic Information System)” on Maharatech:

<https://maharatech.gov.eg/enrol/index.php?id=39>

- “Introduction to GIS Mapping” on Coursera:

<https://www.coursera.org/learn/introduction-gis-mapping/home/welcome>

- Learn more about GIS, Location Intelligence and ESRI technologies:

<https://www.esri.com/en-us/what-is-gis/overview#image3>

<https://www.esri.com/en-us/location-intelligence>

- Learn more about Geo-AI:

<https://www.linkedin.com/pulse/geoai-arccgis-artificial-intelligence-omar-maher/>

<https://www.esri.com/content/dam/esrisites/en-us/about/events/media/UC-2019/technical-workshops/tw-9271-1014.pdf>

- ITI values and vision:

<http://www.iti.gov.eg/Site/AboutUs>

- Geo-Spatial Analyst

- Geo-Spatial Specialist

- Remote Sensing Specialist

- Geospatial Developer

- NoneGeo-Spatial Technologies

Candidates are working together in one of the following industries:

- Architecture, Engineering, and Construction

- Business

- Education

- Health and Human Services

- National Government

- Natural Resources

- Petroleum and Pipeline

- Public Safety

- State and Local Government

- Sustainable Development

- Transportation

- UtilitiesGeo-Spatial Technologies

Geo-Spatial Principles

GIS Fundamentals

07%

Remote Sensing and Digital

Image Processing

Geo-Spatial Tools

ESRI Package

ArcGIS Desktop

ArcGIS Geodatabase

56%

ArcGIS Enterprise (Server,

Online & Portal)

ArcGIS Online

ArcGIS Extensions

ArcGIS Pro

Open Source GIS (QGIS)

ERDAS Imagine

23%

Geo-Spatial Development

Introduction to Python

Programming

Client-Side Technologies

Create Web App. Using ArcGIS

API for Java Script.

Soft Skills

Freelancing Skills

14% Communications Skills

Presentation Skills

Interviewing and CV Writing

Skill

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OTHER USEFUL INFORMATION

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INTENSIVE CODE CAMP

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INTERNET OF THINGS IOT

2021/2022

Be one of our Graduates Family

Track Overview

Information Technology Institute

People Develop Countries .. We Develop People! ()

INTERNET OF THINGS IOT

ITI Intensive Code Camp – Internet of Things Specialization

- is a product oriented approach that gives you the skills to build one of the following products:

Smart street lighting system

Smart parking system

Smart transportation system

Smart metering system

Smart waste management system

Preferable Engineering and Computer Science

390 Hours around 3 months (learning and project).

Blended between Self-paced, Synchronous Learning and

Guided Practices with a Project Based Focused Journey.

B Y A

BEFORE YOU APPLY

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

- Introduction to IoT In maharatech:

<https://maharatech.gov.eg/course/index.php?categoryid=81> ()

INTERNET OF THINGS IOT

- IoT Application Developer

- Laptop with CORE i5 or more and at least 8G

Candidates are working together in one of the following

Suggested Projects:

- Smart street lighting system

- Smart parking system

- Smart transportation system

- Smart metering system

- Smart waste management system! ()

INTERNET OF THINGS IOT

Administration Category

11%

Red Hat System Administration |

Database Category

10%

Database Fundamentals

Web Development (Frontend) Category

23% Client side technologies

HTML5 & CSS3

ES6

Web Development (Backend) Category

9%

Nodejs

Version Control

Core Internet of Things Category

28%

Application Enablement Platforms

Hands on IoT Lab Devices

IoT Value Chain & AEP Features

IoT Application Development Using master of things

19% Soft Skills Category

Communication Skills

Presentation Skills

Interviewing Skills

Freelancing

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THESEFUL INFORMATION

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INTENSIVE ODE AMP

MOTION GRAPHICS

2021/2022

Be one of our Graduates Family

Track Overview

Information Technology Institute

People Develop Countries .. We Develop People Motion Graphics

Motion graphics track is a the marriage of graphic design, animation, sound.

And can be consider as the most powerful marketing tools on the web.

which create stunning imaging effects in real time for a wide variety of

broadcast, video, and film projects

All University Graduates with prerequisites of drawing or basics knowledge of animation and thinking in a creative way

Around 3 months (learning and project).

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

B Y A

BEFORE YOU APPLY

we recommend that Candidates should have a firm understanding of color theory and Design principles and introduction to main software like adobe photoshop and illustrator and Basics of Motion Graphics plus the following course before the Candidates apply to join our program:

<https://opportunity.linkedin.com/skills-for-in-demand-jobs/graphic-designer>

<https://www.nobledesktop.com/blog/intro-to-motion-graphics> Motion Graphics

Motion Graphic artist

Illustration artist

3D Motion Graphic Artist

Candidates are working together using a variety of 2D and

Motion Graphic and 3D Motion Graphic programs:

Adobe Photoshop

Adobe Illustrator .

Adobe Audition

Adobe premiere

Adobe After effects

Maxon Cinema 4D

Candidates are working together in one of the following Project

Making a Groups Project Based on Motion Graphic Videos for a real or Virtual clients or planed campaigns for advertising and awareness videos or infographic Videos

Motion Graphics
2D Graphic Fundamentals

13 % • Adobe Photoshop Fundamentals

- Adobe illustrator Fundamentals

ART & Design

10% • Design Principles.

- Character Design

- Environment Design

15 % illustration Techniques

- Digital Painting

- Vector Art Techniques

14% 3D Motion Graphics

3D Motion Graphic Fundamentals

2D Motion Graphics

18%

- Adobe after effect Fundamentals

- Motion Graphic Techniques

7% Film Making for Motion graphics

- Directing and Script Writing for Motion Graphics

- Story Board Essentials

11% Video & Sound Editing

- Video editing

- sound editing and Mixing

Soft Skills

12%

- presentation and communication skills

- freelancing skills

- Interviewing Skills & C.V Writing

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- None I C C

INTENSIVE ODE AMP

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RENEWABLE OLAR NERGY

2021/2022

Be one of our Graduates Family

Track Overview

Information Technology Institute

People Develop Countries .. We Develop People Renewable (Solar) Energy

ITI Intensive Code Camp – Solar Energy Specialization is a

product based program that will empower you to learn Solar

Energy Sources & Electricity Fundamentals in addition to Solar

Business & Economics

All University Graduates with prerequisites of basic understanding of Information Technology, and Electricity Fundamentals.

280 Hours around 3 months (learning and project).

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

B Y A

BEFORE YOU APPLY

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

- Introduction to electricity

- Introduction to Renewable Energy Technologies
- Introduction to information technologyRenewable (Solar) Energy
- Solar energy Technician
- Solar Design specialist
- Project & System Manager
-

Laptop with good internet connection

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

Using the environmental tools to create solar energy productsRenewable (Solar) Energy

Solar Energy Sources & Electricity Fundamentals

15% An introduction to conventional and renewable energy sources

Solar cell and how it works

Electrical and Electronic circuits connections

Types & Components of Solar Energy Systems

Solar Systems components

33%

Electrical and electronic components

Grid & Off-grid connected systems

Pumping & Hybrid systems

Sun Tracking Technologies

Solar Cell Manufacturing Technology

24%

Solar radiation and Temperature

Install panels and row spacing

Solar Panel Testing

Solar Business & Economics

10% Economics & Pay back period

12 Hrs.Homer Energy

Maintenance & Troubleshooting

Battery & Solar panel maintenance

18%

Inverter maintenance

Troubleshooting

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THESEFUL INFORMATION

This program is a part of ITI-ERI agreement started by 2021

<http://nrea.gov.eg/>

Associated With Renewable Academy AG (RENAC).

<https://www.renac.de/> I C C

INTENSIVE CODE CAMP

Social Media Marketing

2021/2022

Be one of our Graduates Family

Track Overview

Information Technology Institute

People Develop Countries .. We Develop PeopleSocial Media Marketing

ITI Intensive Code Camp –Social Media Marketing Track provide trainees to be able to create and implement an effective content strategy, use Social Media (Facebook, Twitter, Instagram, and YouTube) in product marketing, then analyzing audience behavior, implementing effective social media marketing campaigns, and managing Digital Ads.

Applicants must have a first degree from a recognized university or institution of higher education, or provide documentation indicating that they will earn such a first degree

before enrolment in the program. Admission Requirements for Students vary depending on the student's area of study.

360 Hours around 3 months (learning and project).

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

B Y A

EFORE OU PPLY

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

- Marketing

- HTMLSocial Media Marketing

Social Media Specialist

- Create and implement an effective content strategy

- Use Social Media (Facebook, Twitter, Instagram, and YouTube) in product marketing.

- Analyze audience behavior.

- Implement effective social media marketing campaigns.

- Managing Digital Ads.

- None

Candidates are working together in Projects for implementing

Social Media Campaign for tourists in their governateSocial Media Marketing

Marketing Concept

12%

Introduction to Digital Marketing:

Introduction to Marketing

Social Media Marketing

23%

- Introduction to Social Media Marketing

- Facebook Marketing -YouTube Marketing

- Instagram Marketing -LinkedIn Marketing

- Twitter Marketing -Content Marketing

Digital Ads

11%

- Business Manager , campaign structure & performance

- , Best practices for creation of Ads, Ad Sets and Campaigns

- Campaign Planner -Power Editor

Graphics

11%

Photoshop

Illustrator

Digital Marketing Strategy & Planning

- Key Strategy & Planning Concepts, Planning & Situation Analysis

11%

- Information Gathering, Target Audience, Setting Objectives

- Appropriate Tools

- Action Plan

Digital Marketing Tactics

11%

Branding

Marketing automation

Employment Skills

Presentation Skills

21%

Communication Skills

Freelancing Skills

Interviewing Skills & CV Writing

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S E

SOFTWARE ENGINEERING

F

UNDAMENTALS

2021/2022

Be one of our Graduates Family

Track Overview

Information Technology Institute

People Develop Countries .. We Develop PeopleSWE Fundamentals

ITI Intensive Code Camp – Software Engineering

Fundamentals Specialization - is a product based

program that will empower you to learn the basics of software engineering, , and web development and will qualify you to various specializations tracks to continue your learning journey.

All University Graduates with prerequisites of passing admission examinations & interviews.

435 Hours, around 3.5 months (learning and project).

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

B Y A

EFORE OU PPLY

These topics will be discussed with you in the interviews:

- Interview will include general Computer Systems knowledge, General Web knowledge & General MS Office usage knowledge.

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

- Basic knowledge of Database & Programming.

<https://maharatech.gov.eg/course/view.php?id=740>

- Web Fundamentals:

<https://maharatech.gov.eg/course/view.php?id=36>

- ITI Values :

<http://www.iti.gov.eg/Site/AboutUsSWE> Fundamentals

- Web & UI Developer

- CMS Developer

- Candidate must have a suitable laptop or pc and a stable internet connection.

Candidates are working together in one of the following

Suggested Projects:

- CMS Web ApplicationSWE Fundamentals

Computer Systems Foundation

Operating Systems Fundamentals

18 %

Windows / Linux Operating Systems

Computer Networks Fundamentals

Software Engineering Foundation

Software Engineering

39 % Database Fundamentals

Introduction to Programming Using C
Language
Object Oriented Programming using C++
Language
Data Structures and Algorithms
Web Development Foundation
Introduction to Web Technologies (HTML &
28 %
CSS)

JavaScript Fundamentals
Cloud Computing Fundamentals
Elective Course I
Elective Course II
Employability Skills
Effective Communication Skills
15 % Effective Presentation Skills
Interviewing Skills
Freelancing Skills

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S T
OFTWARE ESTING
FOUNDATIONS

2021/2022

Be one of our Graduates Family

Track Overview

Information Technology Institute

People Develop Countries .. We Develop PeopleSoftware Testing Foundations

ITI Intensive Code Camp – (Software Testing Foundations)

Specialization - is a product based program that will
empower you to learn to analyze test requirements, and
design and execute tests

Develop, update and maintain testing standards and
procedures

Record problems and issues in accordance with the
project's problem and issue management plans

Work with the application team and/or client to resolve any
issues that arise in the testing process

All University Graduates

320 Hours around 3 months (learning and project).

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

B Y A

EFORE OU PPLY

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

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

C and C++ fundamentals courses at

<https://www.sololearn.com/Courses/>

Web Fundamentals at <http://www.maharatech.gov.eg>

Introduction to software testing concepts and techniques at

<https://maharatech.gov.eg/course/view.php?id=2&lang=en>

ITI values that could be found here: <http://>

www.iti.gov.eg/Site/AboutUsSoftware Testing Foundations

Software quality control (QC)/junior SW Tester/Junior Test

Engineer with ISTQB-CTFL certificate

Codeblocks, sql server, netbeans, loadrunner, appium, selinuim

Candidates are working together in one of the following

Suggested Projects:

Manual Testing

Automation Testing (web, mobile , security , performance)Software Testing Foundations

Software development

fundamentals

%20

Object-Oriented Programming

Using C++

Linux Operating System

Introduction to Software

Engineering

Introduction to Web

Technologies

Database Fundamentals

Software Testing Fundamentals

Introduction to software testing

%50 concepts & Techniques

ISTQB Foundation Software

Testing Certification

Effective Test case and bug

report writing techniques

Implementing Testing

Techniques through projects

Web & Desktop Application

%30 Development & Testing

introduction to web

technologies

SQL Fundamentals

Software Configuration

management Fundamentals

Freelancing workshop

Java Programming

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UI/UX D

ESIGN

2021/2022

Be one of our Graduates Family

Track Overview

Information Technology Institute

People Develop Countries .. We Develop PeopleUI/UX Design

ITI Intensive Code Camp – (UI/UX Design) Specialization -

is a product based program that will empower you to learn

User Experience Design which simplifies the design of any

product for users.

Its target is “Don’t make the user think or become confused

while using the product”. It defines users needs according

to their segmentations. Then builds a wireframe that gives a

reliable idea of where everything will eventually go. UX Design performs usability testing. This is a quality attribute, refers to methods for improving the use during the design process.

User Interface visualizes the rough design of User Experience. Its main concerns are color theory, typography, layouts and any interface design.

All University Graduates with prerequisites of the following: he must have a first degree from a recognized university or institution of higher education, or provide documentation indicating that they will earn such a first degree before enrolment in the 3-month program. Admission Requirements for Students vary depending on the student's area of study. 420 Hours around 3 months (learning and project). UI/UX Design Blended between Self-paced, Synchronous Learning and Guided Practices with a Project Based Focused Journey.

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BEFORE OUR PPLY

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

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

UX process and UX elements

<https://careerfoundry.com/en/tutorials/ux-design-for-beginners/what-is-ux-design/>, and <https://uxplanet.org/ux-for-beginners/home> Adobe Photoshop from <https://helpx.adobe.com/photoshop/tutorials.html>, Adobe Illustrator from

<https://helpx.adobe.com/illustrator/tutorials.html>, and Adobe XD from <https://helpx.adobe.com/xd/tutorials.html>

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

www.iti.gov.eg/Site/AboutUs

- UI Designer: Conceptualizes UI with branding in consideration, Provides full UID for the product in hand (app, responsive website, dashboard...etc), prepares design handoffs

- UX Researcher: Researches and analyzes users, competition, and business. Frames interesting findings, prepares reports/diagrams to reflect findings, Prepares test tasks, and conducts user tests

- UX Designer: Builds wireframes. Often overlaps with the researcher.

- Product designer: A UX designer with an extra focus on the product and its fitness/suitability for the market. UI/UX Design Adobe Photoshop, Adobe Illustrator, Adobe XD, Sketch, Figma, Balsamiq, Sympli, Zeplin, InVision Studio, Miro board, Notion, Trello.

Candidates are working 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).

UI/UX Design User Experience Design

User Experience: the

36%

beginner's guide

Design Thinking for Innovation
User Research Methods
Interaction Design for Usability
UI Design Pattern
Usability Testing
Adobe XD Workshop
User Analytics and Tracking
User Interface Design
33% Design Concepts Principles
Visual Design
Adobe Photoshop Workshop
Adobe Illustrator Workshop
UI Principles for Web
UI Principles for Mobile
Design-Development hand-off process
User Interface Development
HTML
19%

CSS Fundamentals
HTML5&CSS3
Bootstrap Fundamentals
Life Skills
12% Effective Communication and
Presentation Skills
Interviewing Skills
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RAPHIC ESIGN
2021/2022

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Track Overview

Information Technology Institute
People Develop Countries .. We Develop People2D Graphic Design

Graphic Design is the art of digitally creating graphic contents
and layouts It can be sorted mainly into the categories of
roasters and vectors graphic design

This track provides practical skills needed to be professional
graphic designer define the requirements, visualize and create
graphics. Which should capture the attention of those who see
them and communicate the right message.

All University Graduates have artistic Background .

Around 3 months (learning and project).

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

B Y A

EFORE OU PPLY

we recommend that Candidates should have a firm understanding of color
theory and Design principles and introduction to main software like adobe
photoshop and illustrator plus the following course before the Candidates
apply to join our program:

<https://opportunity.linkedin.com/skills-for-in-demand-jobs/graphic-designer>2D Graphic Design
TheGraduatewillbe2DGraphicDesignerwhoisresponsibleof:

- Create engaging and on-brand graphics for a variety of media.
- Shape the visual aspects of websites, books, magazines, product packaging, social media designs and videos and more
- Develop illustrations, logos, promotional and other designs using software.

Candidates are working together using a variety of 2D Graphic programs:

Adobe Photoshop

Adobe Illustrator

Adobe InDesign

Adobe Audition

Adobe premiere

Adobe After effects

The project will Design marketing complete campaign for Project, company or organization. Including Ads printings website mobile application user interface and social media videos.2D Graphic Design

Design

8%

Design Principles

2D Graphic Design Tools

- Adobe Photoshop Fundamentals

40%

- Adobe Illustrator fundamentals

- Adobe InDesign Fundamentals..

Video & Sound Editing

17% Adobe Audition Essentials.

Video Editing Essentials

Photography Essentials

19 % Motion for video Production

Adobe After effects Fundamentals.

Soft Skills Courses

Communication Skills

16 %

Interviewing Skills

C.V writing

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OTHER USEFUL INFORMATION

- None