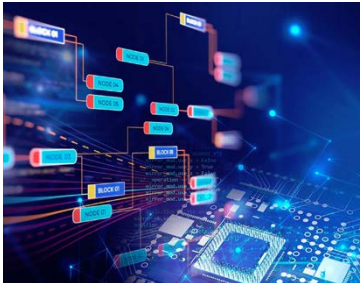


DISTANCE LEARNING PROGRAM

NATIONAL IT ACADEMY

Artificial Intelligence: The science of how computers can mimic the cognitive functions of humans by completing jobs based on algorithms in an “intelligent” manner. Using neural networks, a series of algorithms modeled after the human brain, computers can be taught to think like humans. Neural networks teach computers to recognize patterns just as the brain does by applying labels and assigning items into categories; thereby when computers encounter new information, they try to compare it to a known items to enable them to process that information.



Block Chain: It provides a broad overview of the essential concepts of blockchain technology – by initially exploring the Bitcoin protocol followed by the Ethereum protocol – to lay the foundation necessary for developing applications and programming. You will be equipped with the knowledge needed to create nodes on your personal Ethereum blockchain, create accounts, unlock accounts, mine, transact, transfer Ethers, and check balances.



Cloud Computing: Cloud computing systems today, whether open-source or used inside companies, are built using a common set of core techniques, algorithms, and design philosophies – all centered around distributed systems. Learn about such fundamental distributed computing “concepts” for cloud computing. Some of these concepts include: clouds, MapReduce, key-value / NoSQL stores, classical distributed algorithms, widely-used distributed algorithms, scalability, trending areas, and much, much more! Know how these systems work from the inside out.



Video Game Design:

This course is an introduction to the primary concepts of gaming, and an exploration of how these basic concepts affect the way gamers interact with our games. In this course you will understand what defines a “game” and the mechanics and rules behind different types of games. Through four linked assignments you’ll learn ways to create and describe a game concept, and specifically what makes a compelling game.

A close-up photograph showing a person's hands interacting with technology. The left hand holds a black smartphone, while the right hand points at a tablet. The tablet screen displays a business dashboard with a bar chart, a pie chart, and a line graph. These devices are resting on a wooden desk with a printed document featuring a grid and text.





Digital Marketing: describes the effective social strategies used by organizations today. You'll see real world best practice examples and learn what metrics they use to gauge success. You will also learn the importance of infographics and the impact a well-designed landing page can have on your bottom line. All of the social skills you have learned thus far will be put into action with a multimedia filter and focus blog that you will create to demonstrate how social can enable real-time marketing results.



Big Data Emerging Technologies: Every time you use Google to search something, every time you use Facebook, Twitter, Instagram or any other SNS (Social Network Service), and every time you buy from a recommended list of products on Amazon.com you are using a big data system. In addition, big data technology supports your smartphone, smartwatch, Alexa, Siri, and automobile (if it is a newer model) every day. The top companies in the world are currently using big data technology, and every company is in need of advanced big data technology support.



Programming Fundamentals: introduces a powerful problem-solving process—the Seven Steps—which you can use to solve any programming problem. In addition, it demonstrate in learning how to develop an algorithm, then progress to reading code and understanding how programming concepts relate to algorithms.

The National IT Academy has partnered with Coursera, which is the leading online education provider worldwide, to provide the Distance Learning Stream which is designed to ensure that training is available to the public regardless of their geographic location.

Coursera provides over 2400 online courses and many specializations through its partnerships with over 150 top universities and industry leaders to over 33 million registered users worldwide. The National IT Academy's curriculum of the distance learning has been carefully curated into tracks covering various topics including but not limited to Artificial Intelligence, Block Chain, Cloud Computing, Mobile Application Development and Video Game Design. These programs are available in various degrees of complexity beginning with introductory level, then intermediate and finally advanced. The learner is able to begin his journey at any level that he/she feels comfortable with. Each track consists of several courses that culminate with a certificate issued by the authoring body, whether academic institution (University of California Berkeley, New York University, University of Pennsylvania, University of Michigan ..etc) or corporate institution (IBM, GOOGLE, CISCO, ..etc).

coursera



The National IT Academy is a Not-For-Profit Training Institution established by its four Founding Stakeholders; Saudi Aramco, the Ministry of Communications and Information Technology (MCIT), the Technical & Vocational Training Corporation (TVTC), and Communications and Information Technology Commission (CITC). The Academy will provide Saudi males and females with advanced and accelerated training programs to develop a “job-ready” talent pool. This is in line with the Kingdom’s 2030 Vision to support the digital transformation, lower the rate of unemployment, and increase women’s participation in the workforce.

FOUNDING STAKEHOLDERS



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