

برنامج علوم البيانات - Data Science Program

الأسبوع	المادة	Subject	Week
1	تحضير البيئة التطويرية	1 Preparation of Dev Environment <ul style="list-style-type: none"> - Work with virtual machines to prepare a virtual machine for dev environment. - General knowledge about tools and techniques to work with data. - Data Cleansing. - Data Formating. - Praxis. 	1
2	العمل على قواعد البيانات	2 Work with Databases <ul style="list-style-type: none"> - Databases Types. - Databases Management and Operation. - Data Storing. - Data Backup. - Praxis. 	2
3	تحليل البيانات	3 Data Analysis <ul style="list-style-type: none"> - Overview of Data Analysis Principles. - Data Analysis Tools. - Overview of R Language. - Data Visualization. - Praxis. 	3
4	تحليل البيانات المتقدم	4 Advanced Data Analysis <ul style="list-style-type: none"> - Multi data sources. - Data Bronze Layer. - Data Silver Layer. - Data Glod Layer. - Praxis. 	4
5	مراجعة شاملة	5 General Overview <ul style="list-style-type: none"> - Final Enhancement. - Resume Writing Training. - Presentation Training. - RnD Skills. - QaA. 	5

برنامج هندسة البرمجيات - Software Engineering Program

الأسبوع	المادة	Subject	Week
1	تحضير البيئة التطويرية	1 Preparation of Dev Environment <ul style="list-style-type: none">- Work with virtual machines to prepare a virtual machine for dev environment.- General Knowledge About Programming Fundamentals and Paradigms.- Programming Languages.- Programming Structures.- Praxis.	
2	إدارة المشاريع والنسخ	2 Projects and Version Control <ul style="list-style-type: none">- Overview of Version Control (GIT).- Scrum.- Building First Prototype.- Automatic Testing.- Praxis.	
3	الحوسبة السحابية	3 Cloud Computing <ul style="list-style-type: none">- Overview of Cloud Computing.- Cloud Networking.- Training about micro services architecture.- Cloud Services Management.- Praxis.	
4	بروتوكولات الاتصال	4 Communication Protocols <ul style="list-style-type: none">- Overview of Communication Protocols.- TCP, HTTP/HTTPS protocol.- RPC Protocol.- MQTT Protocol.- Praxis.	
5	مراجعة شاملة	5 General Overview <ul style="list-style-type: none">- Final Enhancement.- Resume Writing Training.- Presentation Training.- RnD Skills.- QaA.	

برنامج واجهات المستخدم - Software User Interface Program

الأسبوع	المادة	Subject	Week
1	تحضير البيئة التطويرية	1 Preparation of Dev Environment <ul style="list-style-type: none">- Prepare dev environment on personal laptop.- General Knowledge About User Interfaces.- Markup Languages and their Usage.- Programming Languages.- Praxis.	1
2	إدارة المشاريع والنسخ	2 Projects and Version Control <ul style="list-style-type: none">- Overview of Version Control (GIT).- Scrum.- Building First Prototype.- Automatic Testing.- Praxis.	2
3	تطوير تطبيقات الشبكة	3 Web Application Development <ul style="list-style-type: none">- Design User Interfaces.- Building User Interfaces.- Integrate User Interfaces with Cloud Services.- Testing the web responsiveness with deferent browsers and screen sizes.- Praxis.	3
4	تطوير تطبيقات الهواتف الذكية	4 Mobile Application Development <ul style="list-style-type: none">- Design User Interfaces.- Building User Interfaces.- Integrate User Interfaces with Cloud Services.- General Information About Publishing to App Stores.- Praxis.	4
5	مراجعة شاملة	5 General Overview <ul style="list-style-type: none">- Final Enhancement.- Resume Writing Training.- Presentation Training.- RnD Skills.- QaA.	5