

SCoE Cloud Computing Course Grid

IBM SCoE Cloud Computing				
S.No.	Subject Code	Subject	Lab Tools	Hours
1	SCC01	Introduction to IT Infrastructure Landscape		30
2	SCC02	Cloud Computing Fundamentals	VMPlayer, VMware Workstation/VirtualBox, kvm, qemu, VMWare Vcenter converter	40
3	SCC03	Cloud Computing Architecture & Deployment Models	OpenStack Software, vmware workstation/VirtualBox	40
4	SCC04	Cloud Computing Security & Management	OpenStack Software, vmware workstation/VirtualBox, Windows 7, Windows 2008, Centos 7.0 / RHEL 7.0, Symantec Anti Virus	40

SCoE BA(Data Science) Course Grid

IBM SCoE Business Analytics (Data Science)				
S.No.	Subject Code	Subject	Lab Tools	Hours
1	SBA01	Introduction to Business Analytics		30
2	SBA02	Data Warehouse & Data Mining	IBM SPSS Modeler / R Data Miner(Rattle)	40
3	SBA03	Business Intelligence	Cognos Business Intelligence / Tableau	30
4	SBA04	Social, Web & Mobile Analytics	Cognos Consumer Insight / Social Media Analytics Software as a Service Tweeter Insights / R Studio	50

SCoE Data Analytics Course Grid

IBM SCoE Data Analytics				
S.No.	Subject Code	Subject	Lab Tools	Hours
1	SDA01	Introduction to Business Analytics		30
2	SDA02	Data Warehouse & Data Mining	IBM SPSS Modeler / R Data Miner(Rattle)	40
3	SDA03	Social, Web & Mobile Analytics	Cognos Consumer Insight / Social Media Analytics Software as a Service Tweeter Insights / R Studio	50
4	SDA04	Big Data Analytics	IBM® InfoSphere® BigInsights™/ Hortonworks Sandbox	30

SCoE Cyber Security & Forensics Course Grid

IBM SCoE Cyber Security & Forensics				
S.No.	Subject Code	Subject	Lab Tools	Hours
1	SCS01	Information Security Fundamentals		30
2	SCS02	IT Systems & Network Security	Tripwire, Wirshark, VeraCrypt, WAMP Server, Snort, OpenVPN, Linksys, OSSIM, AOMEI	40
3	SCS03	Data & Applications Security	Indefend tool from Data Resolve Technologies / Metasploitable 2.0 (Server), , Belarc Advisor, GCC Compiler. IBM Rational Appscanner 7.1, OpenVAS / NESUS, OWTF, Visual Code, Grepper	40
4	SCS04	Digital Forensics	FTK Imager, AUTOPSY, HANDYRECOVERY, AID4MAIL	40

SCoE Internet of Things Course Grid

IBM SCoE Internet of Things				
S.No.	Subject Code	Subject	Lab Tools	Hours
1	SIoT1	Introduction to IoT	Raspberry PI III, Few Analog Sensors and Few Bluetooth Sensors for Cold Chain , Contiki with Cooja Emulator , Bread Boards , Resistor Box, LEDs, Jumpers. Bluetooth/ WIFI Gateway, MQTT & COAP , RPL & ROL , 6 LOWPAN, Cloud Connectivity & Analytical Models (BLUEMIX, Azzure, ADAFRUIT, UBIDOTS, RELAYR). Data Base - HADOOP & CASSANDRA, Web services - Apache & Microsoft IIS, Management Layer - D3 or Node.JS, Programming - Python, Numpy, SCIPy	30
2	SIoT2	Cloud Computing for IoT	VMPlayer, VMware Workstation/VirtualBox, kvm, qemu, VMWare Vcenter converter	40
3	SIoT3	Business Intellegence for IoT	Cognos Business Intelligence / Tableau	40
4	SIoT4	Development of IoT applications with Case Studies	Raspberry PI III, Few Analog Sensors and Few Bluetooth Sensors for Cold Chain , Contiki with Cooja Emulator , Bread Boards , Resistor Box, LEDs, Jumpers. Bluetooth/ WIFI Gateway, MQTT & COAP , RPL & ROL , 6 LOWPAN, Cloud Connectivity & Analytical Models (BLUEMIX, Azzure, ADAFRUIT, UBIDOTS, RELAYR). Data Base - HADOOP & CASSANDRA, Web services - Apache & Microsoft IIS, Management Layer - D3 or Node.JS, Programming - Python, Numpy, SCIPy	40