

Past courses

Date (sorted)	Title/Fees	Description
3 Oct 7.15 – 9.15pm @SIS SRB1-1	How to explore and navigate analytic dashboards with TIBCO Spotfire X Fees: Free	<p>For: Data visualization beginners who want to explore analytic dashboards</p> <p>Prerequisites: None</p> <p>Max class size: 40</p> <p>Instructor: Rafael J. BARROS (Faculty) & Clarice Ang</p> <p>Clarice Ang Clarice is APJ Education Manager at TIBCO Software. As a consultant, Clarice has worked on data migration, systems support and integration projects in the private banking industry for 3 years. She has since moved to the education team, responsible for TIBCO training within APJ. SMU School of Information Systems is her alma mater, with BSc second major Strategic Management.</p> <p>Syllabus Details:</p> <ul style="list-style-type: none"> ● Data Visualization Fundamentals ● Marking Data ● Filtering Data ● Basic Data Cleaning <p>Are you new to data visualization? Have you been wanting to learn more on data preparation? Together with She Loves Data, Singapore Management University and TIBCO, we will explore the basic skills to consume analytics dashboards: marking, filtering and basic data cleaning.</p>

Past Summer Courses

Date (sorted)	Title/Fees	Description
5 Jun 10.00 - 1.00pm @SIS SR2.4	Quantum Leap Fees: Free	<p>For: Students who wants to learn about the current state of Quantum Computing and what it can offer now and in the future.</p> <p>Prerequisites: None</p> <p>Min class size: 5 (the class will run only with min size) Max class size: 45</p> <p>Instructor: Paul GRIFFIN</p> <p>Syllabus Details: The applications of quantum computing will be discussed and demonstrated. Real life examples of how quantum computing is already providing advantages over classical computers will be given such as for finance using the development tool IBM Qiskit or similar.</p> <p>There will be 2 sessions of 1.5 hours each showing the principles of quantum computing and how to get started.</p>

<p>19 Jun 10.00 - 5.00pm @SIS SR B1-1</p>	<p>Blockchain and Smart Contracts</p> <p>Fees: \$10.70</p>	<p>For: Students who wants to learn how to create and program blockchains and Smart Contracts.</p> <p>Prerequisites: Basic programming experience, Javascript is best. Must bring a PC for lab section.</p> <p>Min class size: 5 (the class will run only with min size) Max class size: 45</p> <p>Instructor: Paul GRIFFIN</p> <p>Syllabus Details: Blockchain and Smart Contracts are at the heart of new disruptions to finance and other industries with crypto-currencies such as BitCoin and distributed ledgers being used by many start-ups. This class provides the background and how to start programming these important technologies. There will be 2 sessions of 3 hours each with a mix of theory and hands-on work. By the end of the sessions participants will be able to install a blockchain, mine blocks and write, deploy and execute Smart Contracts. We will be using Ethereum as the blockchain and Smart Contract engine and program in Solidity. A knowledge of programming is assumed but only up to understanding scripts (ideally Javascript).</p>
<p>29 - 30 Apr 9.30 to 5.00pm @SIS SR2.4</p> <p>Registration closed as class is full.</p>	<p>Big Data Analytics with kdb+</p> <p>Fees: \$21.40</p>	<p>For: Students interested in big data and using the kdb+ technology for ultra-high-speed processing of real-time, streaming and historical data.</p> <p>Prerequisites:</p> <ul style="list-style-type: none"> - Keen interest in big data - Prior academic or professional experience with any programming language, i.e. Java, R, Python, Matlab <p>Min class size: 15 (the class will run only with min size) Max class size: 30</p> <p>Instructor: Mr Warren Yong & Mr Jun Bing Neo</p> <p>About Kx: Kx is a global technology provider with 20 years of experience working with some of the world's largest finance, technology, retail, pharma, manufacturing and energy institutions. Kx technology, incorporating the kdb+ time-series database, is a leader in high-performance, in-memory computing, streaming analytics and flexibility for high-volume, data-intensive analytics and applications across multiple industries.</p> <p>Syllabus Details: Join us for a 2-day session to learn more about the power Kx technology, together with understanding what Big Data is all about!</p> <p>Day 1 involves us looking into what exactly is Big Data and what does this mean for all of us. We also discuss different databases and where kdb+ stands within all of these. Our</p>

		<p>discussion will take us into how we have developed big data solutions to solve the growing need for data management, with the support of real-life business use cases. We will then embark of the basics of q/kdb+ programming before rounding up for the day.</p> <p>Day 2 is the time for us to get our hands dirty! We will continue learning more about the kdb+ technology before working through a data science example and group exercise using real-life industry data. Students are also encouraged to bring their own datasets so that we can work through it together to discover unique insights using kdb+.</p> <p>At the end of both days, students will receive a complementary Kx certification stipulating his/her completion of the introductory kdb+ Level 1 course including kdb+ concepts, programming and data mining techniques. Given our diversified client pool across institutions such as NASA, Red Bull Racing and closer to home, SGX, GIC and Standard Chartered, we encourage students to include this on their resumes for increased visibility during job searches as well as knowledge of the Kx technology which is highly relevant in the industry today!</p> <p>In terms of transferable skills, students should be able to grasp through the workshop:</p> <ol style="list-style-type: none"> 1. Understanding Big Data and Databases 2. How information is captured and stored 3. How to query this information 4. What are the best techniques to mine this data 5. Architecture design
<p>2 May 9.00 to 5.00pm @SIS SR2.4</p>	<p>Analysing data made easy with SAP Science Explorers</p> <p>Fees: \$10.70</p>	<p>For: SMU undergraduates, postgraduates, teaching assistants and professors who are interested in data analytics.</p> <p>Prerequisites: No data analytics background is required.</p> <p>Min class size: 10 (the class will run only with min size) Max class size: 30</p> <p>Instructor: SAP trainer</p> <p>Syllabus Details:</p> <p>ASEAN Data Science Explorers (ADSE) is a flagship programme under the ASEAN Foundation’s collaboration with SAP to engage and prepare today’s youth for tomorrow’s world. Using SAP Analytics Cloud, ADSE encourages participants to deliver data-driven insights which highlight pressing social and economic issues in ASEAN across seven United Nations Sustainable Development Goals.</p> <p>In this session, we cover the fundamentals of SAP Analytics Cloud - constructing meaningful stories using data, predicting future trends and taking actions to improve the business.</p> <ol style="list-style-type: none"> 1. Monitoring cost efficiency for HR, Travel

2. Creating custom filters
3. Tracking product sales and performance
4. Planning and forecasting data

This is a hands-on course. Attendees are expected to attend the full duration of the session. Attendees will be provided access to SAP Analytics Cloud and relevant materials during the session.

After the session, attendees are encouraged to train SMU students for ADSE.

For more information, visit <https://www.aseandse.org/>