

Schedule for SCTP Advanced Professional Certificate (APC) in Data Analytics: 1 Feb 27 Intake

Course Code: TGS-2022013569

SN	Week	Module Name	Class Type	Online Type	Topics	Hours	Trainer	Date	Day	Time			Location	Remarks
		Data Management, Data Wrangling and Exploratory Data Analysis (EDA)		Synchronous and Asynchronous	LEARNING OBJECTIVES: Week 1: Introduction to Data Management and Wrangling and EDA concepts & Introduction to Relational Databases Week 2: SQL Statements Week 3: Understanding Data Model Documentation Week 4: Shaping Data with SQL	50	Kan Hwa Heng Francis Tay			Attendance Check-In times				Participants will be required to have SQLite and DB Browser for SQLite installed in their PC or Macbook.
1	Wk 1		Check-in	Synchronous	Introduction to Programme, Data Questions, Data Analysis	2	Francis Tay	1-Feb-27	Monday	7:00 pm	to	9:00 pm		Introductory Lecture
2			Check-in	Asynchronous	Access to Materials, Self-Paced Learning.	3	Kan Hwa Heng	2-Feb-27	Tuesday	10:00 am	to	10:00 pm		Check in anytime to get materials for self-learning in "Content" section.
3			Lecture	Synchronous	Introduction to Data Wrangling, EDA, etc.	3	Kan Hwa Heng	3-Feb-27	Wednesday	7:00 pm	to	10:00 pm		Lecture and Group Work
4			Check-in	Asynchronous	Access to Materials, Self-Paced Learning.	3	Kan Hwa Heng	4-Feb-27	Thursday	10:00 am	to	10:00 pm		Check in anytime to get materials for self-learning in "Content" section.
5			Assignment/Quiz	Asynchronous	Assignment/Quiz	2	Kan Hwa Heng	5-Feb-27	Friday	10:00 am	to	10:00 pm		Assignment/Quiz due date
6	Wk 2				Chinese New Year holiday			8-Feb-27						
7			Check-in	Asynchronous	Access to Materials, Self-Paced Learning.	3	Kan Hwa Heng	9-Feb-27	Tuesday	10:00 am	to	10:00 pm		Check in anytime to get materials for self-learning in "Content" section.
8			Check-in	Asynchronous	Access to Materials, Self-Paced Learning.	2	Kan Hwa Heng	10-Feb-27	Wednesday	10:00 am	to	10:00 pm		Check in anytime to get materials for self-learning in "Content" section.
9			Check-in	Asynchronous	Access to Materials, Self-Paced Learning.	2	Kan Hwa Heng	11-Feb-27	Thursday	10:00 am	to	10:00 pm		Check in anytime to get materials for self-learning in "Content" section.
10			Check-in	Asynchronous	Access to Materials, Self-Paced Learning.	2	Kan Hwa Heng	12-Feb-27	Friday	10:00 am	to	10:00 pm		Check in anytime to get materials for self-learning in "Content" section.
11	Wk 3		Lecture	Synchronous	Introduction to Relational Databases and SQL statements.	3	Kan Hwa Heng	15-Feb-27	Monday	7:00 pm	to	10:00 pm		Lecture and Group Work
12			Check-in	Asynchronous	Access to Materials, Self-Paced Learning.	3	Kan Hwa Heng	16-Feb-27	Tuesday	10:00 am	to	10:00 pm		Check in anytime to get materials for self-learning in "Content" section.
13			Lecture	Synchronous	SQL statements - Expressions and Functions.	3	Kan Hwa Heng	17-Feb-27	Wednesday	7:00 pm	to	10:00 pm		Lecture and Group Work
14			Check-in	Asynchronous	Access to Materials, Self-Paced Learning.	3	Kan Hwa Heng	18-Feb-27	Thursday	10:00 am	to	10:00 pm		Check in anytime to get materials for self-learning in "Content" section.
15			Assignment/Quiz	Asynchronous	Group Assignment Submission	2	Kan Hwa Heng	19-Feb-27	Friday	10:00 am	to	10:00 pm		Assignment/Quiz due date
			Lecture	F2F	Career Pathfinder Series - Module 1 - Fundamentals of Career Discovery Navigation and Readiness		Justus Teo	20-Feb-27	Saturday	9:30 am	to	12.30pm		Lecture and Group Work
16	Wk 4		Lecture	Synchronous	SQL Statements. Data model documentation.	3	Kan Hwa Heng	22-Feb-27	Monday	9:00 pm	to	12:00 pm		Lecture and Group Work
17			Check-in	Asynchronous	Access to Materials, Self-Paced Learning.	3	Kan Hwa Heng	23-Feb-27	Tuesday	10:00 am	to	10:00 pm		Check in anytime to get materials for self-learning in "Content" section.
18			Lecture	Synchronous	Shaping Data with SQL.	3	Kan Hwa Heng	24-Feb-27	Wednesday	7:00 pm	to	10:00 pm		Lecture and Group Work
19			Check-in	Asynchronous	Access to Materials, Self-Paced Learning.	3	Kan Hwa Heng	25-Feb-27	Thursday	10:00 am	to	10:00 pm		Check in anytime to get materials for self-learning in "Content" section.
20			Assignment/Quiz	Asynchronous	Group Assignment Submission	2	Kan Hwa Heng	26-Feb-27	Friday	10:00 am	to	10:00 pm		Assignment/Quiz due date
		Communicating Insights, Dashboarding and Data Storytelling		Synchronous and Asynchronous	LEARNING OBJECTIVES: Week 5: Introduction to Data Visualization and Data Storytelling; Basic chart creation in Tableau and Manage and Manipulate Data within Tableau; Exploring data using charts Week 6: Creating Dashboards and Telling Story Week 7: Group Project Week 8: Basic Predictive Analytics	60	Khoo Seok Teng							Participants will be required to download FREE version of TABLEAU Public 2026 at https://public.tableau.com/en-us/s/download . Recommended System Requirements: • OS: Windows PC – Windows 8 or later, MacOS 10.14 or later. • RAM: Minimum 2 GB • Hard Disk Space: 2 GB Tableau Public Account Required: • Register link: https://public.tableau.com/en-us/s/ • Use "Sign up" button on top right of page

					CNY WEEK - No Classes									Chinese New Year Week
1	Wk 5		Lecture	Synchronous	Introduction to Module. Introduction to Data Visualization and Data Storytelling with Tableau. Familiarise with Tableau Interface and Basic Chart Creation.	3	Khoo Seok Teng	1-Mar-27	Monday	7:00 pm	to	10:00 pm		Lecture and Group Work
2			Check-in	Asynchronous	Access to Materials, Self-Paced Learning. Work on Assignment.	4	Khoo Seok Teng	2-Mar-27	Tuesday	10:00 am	to	10:00 pm		Check in anytime to get materials for self-learning in "Content" section.
3			Lecture	Synchronous	Data Manipulation in Tableau; Creating charts to explore data using charts	3	Khoo Seok Teng	3-Mar-27	Wednesday	7:00 pm	to	10:00 pm		Lecture and Group Work
4			Check-in	Asynchronous	Access to Materials, Self-Paced Learning. Work on Assignment.	5	Khoo Seok Teng	4-Mar-27	Thursday	10:00 am	to	10:00 pm		Check in anytime to get materials for self-learning in "Content" section.
4			Assignment/Quiz	Asynchronous	Assignment/Quiz	4	Khoo Seok Teng	5-Mar-27	Friday	10:00 am	to	10:00 pm		Assignment/Quiz due date
			Lecture	F2F	Career Pathfinder Series - Module 2 - Career Marketplace - Labour Market Research and Career Planning		Justus Teo	6-Mar-27	Saturday	1.00pm	to	4.00pm		
5	Wk 6		Lecture	Synchronous	Creating dashboards with interactivity and telling story using Tableau	3	Khoo Seok Teng	8-Mar-27	Monday	7:00 pm	to	9:00 pm		Check in anytime to get materials for self-learning in "Content" section.
6			Check-in	Asynchronous	Access to Materials, Self-Paced Learning. Work on Assignment.	5	Khoo Seok Teng	9-Mar-27	Tuesday	10:00 am	to	10:00 pm		Lecture and Group Work
7			Check-in	Asynchronous	Access to Materials, Self-Paced Learning. Work on Assignment.	5	Khoo Seok Teng	10-Mar-27	Wednesday	10:00 am	to	10:00 pm		Check in anytime to get materials for self-learning in "Content" section.
8			Lecture	Synchronous	Work on Group Project	3	Khoo Seok Teng	11-Mar-27	Thursday	7:00 pm	to	9:00 pm		Lecture and Group Work
9			Assignment/Quiz	Asynchronous	Assignment/Quiz	4	Khoo Seok Teng	12-Mar-27	Friday	10:00 am	to	10:00 pm		Assignment/Quiz due date
10	Wk 7		Check-in	Asynchronous	Access to Materials, Self-Paced Learning.	5	Khoo Seok Teng	15-Mar-27	Monday	10:00 am	to	10:00 pm		Check in anytime to get materials for self-learning in "Content" section.
11			Check-in	Asynchronous	Access to Materials, Self-Paced Learning.	5	Khoo Seok Teng	16-Mar-27	Tuesday	10:00 am	to	10:00 pm		Check in anytime to get materials for self-learning in "Content" section.
12			Lecture	Synchronous	Group Project Presentation; Basic Predictive Analytics using Clusters and Forecasting	3	Khoo Seok Teng	17-Mar-27	Wednesday	7:00 pm	to	10:00 pm		Lecture and Group Work
13			Check-in	Asynchronous	Access to Materials, Self-Paced Learning.	4	Khoo Seok Teng	18-Mar-27	Thursday	10:00 am	to	10:00 pm		Check in anytime to get materials for self-learning in "Content" section.
14			Assignment/Quiz	Asynchronous	Assignment/Final Module Quiz	4	Khoo Seok Teng	19-Mar-27	Friday	10:00 am	to	10:00 pm		Assignment/Quiz due date
		Analysing and Interpreting Data		Synchronous and Asynchronous	LEARNING OBJECTIVES: Week 9: Introduction to Business Analytics, Data Cleaning and Time Series Analysis Week 10: Benchmarking Week 11: Project Week 1 Week 12: Forecasting, Scenarios Week 13: Correlations Analysis Week 14: Project Week 2, Presentations	82	Francis Tay							Participants will be required to have Microsoft Excel installed in their PC or Macbook. Preference is for participants to have Excel 365, Excel 2016 or later. For this course, it is preferable to have Windows PC as many applications operated best on PC. For Mac users, please refer to notes on how to run Windows on Mac.
15	Wk 8	Introduction to Data Analysis and Interpretation	Check-in	Synchronous	Introduction to Module and Data Cleaning	3	Francis Tay	22-Mar-27	Monday	7:00 pm	to	10:00 pm		Introduction and the use of Excel for data analysis, Excel Hands-on work.
16		Data Cleaning, Time Series	Check-in	Asynchronous	Access to Materials, Self-Learning. Work on Assignment.	3	Francis Tay	23-Mar-27	Tuesday	10:00 am	to	10:00 pm		Check in anytime to get materials for self-learning in "Content" section.
17			Lecture	Synchronous	Time Series Analysis & Benchmarking	3	Francis Tay	24-Mar-27	Wednesday	7:00 pm	to	10:00 pm		Use of Excel and hand-on work.
18			Check-in	Asynchronous	Access to Materials, Self-Learning. Work on Assignment.	4	Francis Tay	25-Mar-27	Thursday	10:00 am	to	10:00 pm		Check in anytime to get materials for self-learning in "Content" section.
19			Assignment/Quiz	Asynchronous	Assignment/Quiz	2	Francis Tay	26-Mar-27	Friday	10:00 am	to	10:00 pm		Assignment/Quiz due date
			Lecture	F2F	Career Pathfinder Series - Module 3 - Career Readiness Prep - Personal Branding & Resume		Justus	27-Mar-27	Saturday	9.30am	to	12.30pm		
20	Wk 9	Benchmarking	Check-in	Asynchronous	Access to Materials, Self-Learning.	3	Francis Tay	29-Mar-27	Monday	10:00 am	to	10:00 pm		Check in anytime to get materials for self-learning in "Content" section.
21			Lecture	Synchronous	Benchmarking	3	Francis Tay	30-Mar-27	Tuesday	7:00 pm	to	10:00 pm		Use of Excel and hand-on work.
22			Check-in	Asynchronous	Access to Materials, Self-Learning. Work on Assignment.	3	Francis Tay	31-Mar-27	Wednesday	10:00 am	to	10:00 pm		Check in anytime to get materials for self-learning in "Content" section.
23			Assignment/Quiz	Asynchronous	Assignment/Quiz	2	Francis Tay	1-Apr-27	Thursday	10:00 am	to	10:00 pm		Assignment/Quiz due date
23								2-Apr-27	Friday					Good Friday Holiday
51	Wk 10	PROJECT WEEK 1	Check-in	Asynchronous	Work on Excel Dashboard Project	3	Francis Tay	5-Apr-27	Monday	10:00 am	to	10:00 pm		Use of Excel and Work on project.
52			Check-in	Asynchronous	Work on Excel Dashboard Project	3	Francis Tay	6-Apr-27	Tuesday	10:00 am	to	10:00 pm		Use of Excel and Work on project.
53			Lecture	Synchronous	Tutorial session - Zoom	2	Francis Tay	7-Apr-27	Wednesday	7:00 pm	to	9:00 pm		Recap session
54			Check-in	Asynchronous	Work on Excel Dashboard Project	3	Francis Tay	8-Apr-27	Thursday	10:00 am	to	10:00 pm		Use of Excel and Work on project.
55			Check-in	Asynchronous	Work on Excel Dashboard Project	3	Francis Tay	9-Apr-27	Friday	10:00 am	to	10:00 pm		Use of Excel and Work on project.
			Lecture	F2F	Career Pathfinder Series - Modules 4 - Career Readiness Prep - Interview prep + mock interviews		Justus Teo	10-Apr-27	Saturday	1:30pm	to	4:30 pm		
56	Wk 11	Forecasting	Check-in	Asynchronous	Access to Materials, Self-Learning.	3	Francis Tay	12-Apr-27	Monday	10:00 am	to	10:00 pm		Presentations
57			Lecture	Synchronous	Forecasting & Scenarios	3	Francis Tay	13-Apr-27	Tuesday	7:00 pm	to	10:00 pm		Use of Excel and hand-on work.

58			Check-in	Asynchronous	Access to Materials, Self-Learning.	3	Francis Tay	14-Apr-27	Wednesday	10:00 am	to	10:00 pm		Check in anytime to get materials for self-learning in
59			Check-in	Asynchronous	Access to Materials, Self-Learning.	3	Francis Tay	15-Apr-27	Thursday	10:00 am	to	10:00 pm		Check in anytime to get materials for self-learning in
60			Assignment/Quiz	Asynchronous	Assignment/Quiz	2	Francis Tay	16-Apr-27	Friday	10:00 am	to	10:00 pm		Assignment/Quiz due date
61	Wk 12	Correlations Analysis	Check-in	Asynchronous	Access to Materials, Self-Learning.	3	Francis Tay	19-Apr-27	Monday	10:00 am	to	10:00 pm		Check in anytime to get materials for self-learning in
62			Lecture	Synchronous	Correlations Analysis / MLR	3	Francis Tay	20-Apr-27	Tuesday	7:00 pm	to	10:00 pm		Use of Excel and hand-on work.
63			Check-in	Asynchronous	Access to Materials, Self-Learning.	3	Francis Tay	21-Apr-27	Wednesday	10:00 am	to	10:00 pm		Check in anytime to get materials for self-learning in
64			Check-in	Asynchronous	Access to Materials, Self-Learning.	3	Francis Tay	22-Apr-27	Thursday	10:00 am	to	10:00 pm		Check in anytime to get materials for self-learning in
65			Assignment/Quiz	Asynchronous	Assignment/Quiz	2	Francis Tay	23-Apr-27	Friday	10:00 am	to	10:00 pm		Assignment/Quiz due date
			Lecture	F2F	Career Pathfinder Series - Module 5 - Career Transition and Stabilization		Justus Teo	24-Apr-27	Saturday	9:30am	to	12:30pm		
66	Wk 13	PROJECT WEEK 2	Check-in	Asynchronous	Work on Excel Dashboard Project	3	Francis Tay	26-Apr-27	Monday	10:00 am	to	10:00 pm		Use of Excel and Work on project.
67			Lecture	Synchronous	Tutorial session - Zoom	2	Francis Tay	27-Apr-27	Tuesday	7:00 pm	to	9:00 pm		Recap session
68			Check-in	Asynchronous	Work on Excel Dashboard Project	3	Francis Tay	28-Apr-27	Wednesday	10:00 am	to	10:00 pm		Use of Excel and Work on project.
69			Check-in	Asynchronous	Work on Excel Dashboard Project	3	Francis Tay	29-Apr-27	Thursday	10:00 am	to	10:00 pm		Use of Excel and Work on project.
70			Lecture	Synchronous	Project Presentations	3	Francis Tay	30-Apr-27	Friday	7:00 pm	to	10:00 pm		Presentations over ZOOM

·All lectures will be facilitated virtually unless otherwise stated

·F2F lectures will be held at NTU@one-north campus (11 Slim Barracks Rise, Singapore 138664)

·NTU reserves the right to change the date, mode/venue of lessons or cancel them due to unforeseen circumstances