

Schedule for SCTP Advanced Professional Certificate (APC) in Data Analytics: 2 March 26 Intake
Course Code: TGS-XXXXXXXXXX

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 Week 2: Introduction to Relational Databases and SQL Statements Week 3: Understanding Data Model Documentation Week 4: Shaping Data with SQL	52	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	Introduction to Data Management and Wrangling and EDA concepts	Lecture	Synchronous	Introduction to Programme, Data Wrangling, EDA	2	Francis Tay Kan Hwa Heng	2-Mar-26	Monday	7:00 pm	to	9:00 pm	Introductory Lecture	
2			Check-in	Asynchronous	Access to Materials, Self-Learning.	2	Kan Hwa Heng	3-Mar-26	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	4-Mar-26	Wednesday	7:00 pm	to	10:00 pm	Lecture and Group Work	
4			Check-in	Asynchronous	Access to Materials, Self-Learning. Work on Assignment.	3	Kan Hwa Heng	5-Mar-26	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	3	Kan Hwa Heng	6-Mar-26	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	7-Mar-26	Saturday	9:30 am	to	12:30pm	LT701	Lecture and Group Work
6	Wk 2	Introduction to Relational Databases and SQL statements	Check-in	Asynchronous	Access to Materials, Self-Learning.	2	Kan Hwa Heng	9-Mar-26	Monday	10:00 am	to	10:00 pm	Check in anytime to get materials for self-learning in "Content" section.	
7			Check-in	Asynchronous	Access to Materials, Self-Learning.	2	Kan Hwa Heng	10-Mar-26	Tuesday	10:00 am	to	10:00 pm	Check in anytime to get materials for self-learning in "Content" section.	
8			Lecture	Synchronous	Extra Session - Week 1 Recap	2	Kan Hwa Heng	11-Mar-26	Wednesday	7:00 pm	to	9:00 pm	Not Compulsory to Attend	
9			Check-in	Asynchronous	Access to Materials, Self-Learning. Work on Assignment.	3	Kan Hwa Heng	12-Mar-26	Thursday	10:00 am	to	10:00 pm	Check in anytime to get materials for self-learning in "Content" section.	
10			Assignment/Quiz	Asynchronous	Assignment/Quiz	3	Kan Hwa Heng	13-Mar-26	Friday	10:00 am	to	10:00 pm	Assignment/Quiz due date	
11			Lecture	F2F	Introduction to Relational Databases and SQL statements.	3	Kan Hwa Heng	14-Mar-26	Saturday	9:00 am	to	12:00 pm	LT701	Lecture and Group Work
12	Wk 3	Introduction to Data Model Documentation	Check-in	Asynchronous	Access to Materials, Self-Learning.	2	Kan Hwa Heng	16-Mar-26	Monday	10:00 am	to	10:00 pm	Check in anytime to get materials for self-learning in "Content" section.	
13			Check-in	Asynchronous	Access to Materials, Self-Learning.	2	Kan Hwa Heng	17-Mar-26	Tuesday	10:00 am	to	10:00 pm	Check in anytime to get materials for self-learning in "Content" section.	
14			Lecture	Synchronous	SQL Statements. Data model documentation.	3	Kan Hwa Heng	18-Mar-26	Wednesday	7:00 pm	to	10:00 pm	Lecture and Group Work	
15			Assignment/Quiz	Asynchronous	Assignment/Quiz	3	Kan Hwa Heng	19-Mar-26	Thursday	10:00 am	to	10:00 pm	Assignment/Quiz due date	
16								20-Mar-26	Friday				Hari Raya Puasa Holiday	
17	Wk 4	Shaping data with SQL	Check-in	Asynchronous	Access to Materials, Self-Learning.	2	Kan Hwa Heng	23-Mar-26	Monday	10:00 am	to	10:00 pm	Check in anytime to get materials for self-learning in "Content" section.	
18			Check-in	Asynchronous	Access to Materials, Self-Learning.	2	Kan Hwa Heng	24-Mar-26	Tuesday	10:00 am	to	10:00 pm	Check in anytime to get materials for self-learning in "Content" section.	
19			Lecture	Synchronous	Extra Session - Week 3 Recap	2	Kan Hwa Heng	25-Mar-26	Wednesday	7:00 pm	to	9:00 pm	Not Compulsory to Attend	
20			Check-in	Asynchronous	Access to Materials, Self-Learning. Work on Assignment.	2	Kan Hwa Heng	26-Mar-26	Thursday	10:00 am	to	10:00 pm	Check in anytime to get materials for self-learning in "Content" section.	
21			Assignment/Quiz	Asynchronous	Group Assignment Submission	3	Kan Hwa Heng	27-Mar-26	Friday	10:00 am	to	10:00 pm	Assignment/Quiz due date	
22			Lecture	F2F	Shaping Data with SQL	3	Kan Hwa Heng	28-Mar-26	Saturday	9:00 am	to	12:00 pm	LT701	Lecture and Presentations
			Lecture	F2F	Career Pathfinder Series - Module 2 - Career Marketplace - Labour Market Research and Career Planning		Justus Teo	28-Mar-26	Saturday	1:30 pm	to	4:30 pm	LT701	
		Analysing and Interpreting Data		Synchronous and Asynchronous	LEARNING OBJECTIVES: Week 5: Introduction to Business Analytics and Time Series Analysis Week 6: Time Series & Benchmarking Week 7: Project Week 1 Week 8: Forecasting and Scenarios Week 9: Correlation Analysis Week 10: Project Week 2 + Presentation	85	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.	
23	Wk 5	Introduction to Data Analysis and Interpretation	Lecture	Synchronous	Introduction to Module	1	Francis Tay	30-Mar-26	Monday	7:00 pm	to	8:00 pm		Introduction and the use of Excel for data analysis.
25		Data Cleaning, Time Series	Lecture	Synchronous	Data Cleaning & Time Series Analysis	3	Francis Tay	31-Mar-26	Tuesday	7:00 pm	to	10:00 pm		Use of Excel and hand-on work.
24			Check-in	Asynchronous	Access to Materials, Self-Learning.	2	Francis Tay	1-Apr-26	Wednesday	10:00 am	to	10:00 pm		Check in anytime to get materials for self-learning in "Content" section.
26			Check-in	Asynchronous	Access to Materials, Self-Learning. Work on Assignment.	3	Francis Tay	2-Apr-26	Thursday	10:00 am	to	10:00 pm		Check in anytime to get materials for self-learning in "Content" section.
27								3-Apr-26	Friday				Good Friday Holiday	
28	Wk 6	Benchmarking	Assignment/Quiz	Asynchronous	Assignment/Quiz	3	Francis Tay	6-Apr-26	Monday	12:00 am	to	12:00 am		Week 1 Assignment/Quiz due date
29			Check-in	Asynchronous	Access to Materials, Self-Learning.	3	Francis Tay	7-Apr-26	Tuesday	10:00 am	to	10:00 pm		Check in anytime to get materials for self-learning in "Content" section.
30			Lecture	Synchronous	Benchmarking	3	Francis Tay	8-Apr-26	Wednesday	7:00 pm	to	10:00 pm		Use of Excel and hand-on work.
31			Check-in	Asynchronous	Access to Materials, Self-Learning. Work on Assignment.	3	Francis Tay	9-Apr-26	Thursday	10:00 am	to	10:00 pm		Check in anytime to get materials for self-learning in "Content" section.
32			Assignment/Quiz	Asynchronous	Assignment/Quiz	3	Francis Tay	10-Apr-26	Friday	12:00 am	to	12:00 am		Week 1 Assignment/Quiz due date

			Lecture	F2F	Career Pathfinder Series - Module 3 - Career Readiness Prep - Personal Branding & Resume		Justus	11-Apr-26	Saturday	9:30 am	to	12.30 pm	LT701	
33	Wk 7	PROJECT WEEK 1	Check-in	Asynchronous	Work on Excel Dashboard Project	2	Francis Tay	13-Apr-26	Monday	9:00 am	to	9:00 pm		Use of Excel and Work on project.
34			Lecture	Synchronous	Extra Session - Time Series and Benchmarking Analysis Recap	2	Francis Tay	14-Apr-26	Tuesday	7:00 pm	to	9:00 pm		Not Compulsory to Attend
35			Check-in	Asynchronous	Work on Excel Dashboard Project	3	Francis Tay	15-Apr-26	Wednesday	10:00 am	to	10:00 pm		Use of Excel and Work on project.
36			Check-in	Asynchronous	Work on Excel Dashboard Project	3	Francis Tay	16-Apr-26	Thursday	10:00 am	to	10:00 pm		Use of Excel and Work on project.
37			Check-in	Asynchronous	Work on Excel Dashboard Project	3	Francis Tay	17-Apr-26	Friday	10:00 am	to	10:00 pm		Use of Excel and Work on project.
38	Wk 8	Forecasting Techniques	Check-in	Asynchronous	Access to Materials, Self-Learning.	3	Francis Tay	20-Apr-26	Monday	10:00 am	to	10:00 pm		Check in anytime to get materials for self-learning in "Content" section.
40			Lecture	Synchronous	Forecasting	3	Francis Tay	21-Apr-26	Tuesday	7:00 pm	to	10:00 pm		Use of Excel and hand-on work.
39			Check-in	Asynchronous	Access to Materials, Self-Learning.	3	Francis Tay	22-Apr-25	Tuesday	10:00 am	to	10:00 pm		Check in anytime to get materials for self-learning in "Content" section.
41			Check-in	Asynchronous	Access to Materials, Self-Learning.	3	Francis Tay	23-Apr-26	Thursday	10:00 am	to	10:00 pm		Check in anytime to get materials for self-learning in "Content" section.
42			Assignment/Quiz	Asynchronous	Assignment/Quiz	3	Francis Tay	24-Apr-26	Friday	10:00 am	to	10:00 pm		Assignment/Quiz due date
43			Lecture	F2F	Work on Project	2	Francis Tay	25-Apr-26	Saturday	2:00 pm	to	4:00 pm	LT701	Use of Excel and hand-on work.
44	Wk 9	Correlations Analysis	Check-in	Asynchronous	Access to Materials, Self-Learning.	3	Francis Tay	27-Apr-26	Monday	10:00 am	to	10:00 pm		Check in anytime to get materials for self-learning in "Content" section.
44			Check-in	Asynchronous	Access to Materials, Self-Learning.	4	Francis Tay	28-Apr-26	Tuesday	10:00 am	to	10:00 pm		Check in anytime to get materials for self-learning in "Content" section.
44			Lecture	Synchronous	Correlations Analysis	3	Francis Tay	29-Apr-26	Wednesday	7:00 pm	to	10:00 pm		Use of Excel and hand-on work.
44			Assignment/Quiz	Asynchronous	Assignment/Quiz	3	Francis Tay	30-Apr-26	Thursday	10:00 am	to	10:00 pm		Assignment/Quiz due date
44								1-May-26	Friday					Labour Day
			Lecture	F2F	Career Pathfinder Series - Modules 4 & 5 - Career Readiness Prep - Interview prep + mock interviews		Justus Teo	2-May-26	Saturday	9:30 am	to	12:30 pm	LT701	
45	Wk 10	PROJECT WEEK 2	Check-in	Asynchronous	Work on Excel Dashboard Project	3	Francis Tay	4-May-26	Monday	10:00 am	to	10:00 pm		Use of Excel and Work on project.
46			Check-in	Asynchronous	Work on Excel Dashboard Project	3	Francis Tay	5-May-26	Tuesday	10:00 am	to	10:00 pm		Use of Excel and Work on project.
47			Lecture	Synchronous	Project Consult	3	Francis Tay	6-May-26	Wednesday	7:00 pm	to	10:00 pm		Project Consult
48			Check-in	Asynchronous	Work on Excel Dashboard Project	3	Francis Tay	7-May-26	Thursday	10:00 am	to	10:00 pm		Use of Excel and Work on project.
49			Check-in	Asynchronous	Work on Excel Dashboard Project	3	Francis Tay	8-May-26	Friday	10:00 am	to	10:00 pm		Use of Excel and Work on project.
50			Lecture	F2F	Project Presentations	3	Francis Tay	9-May-26	Saturday	10:00 am	to	1:00 pm	LT701	Project Presentation
		Communicating Insights, Dashboarding and Data Storytelling	Synchronous and Asynchronous		LEARNING OBJECTIVES: Week 11: Introduction to Data Visualization and Data Storytelling; Basic chart creation in Tableau Week 12: Manage and Manipulate Data within Tableau; Exploring data using charts Week 13: Creating Dashboards and Telling Story Week 14: Basic Predictive Analytics		Khoo Seok Teng							Participants will be required to download FREE version of TABLEAU Public 2025 at https://public.tableau.com/en-us/s/download . Recommended System Requirements: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• Register link: https://public.tableau.com/en-us/s/• Use "Sign up" button on top right of page
51	Wk 11	Introduction to Data Visualization and Data Storytelling. Basic chart creation in Tableau.	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	11-May-26	Monday	7:00 pm	to	10:00 pm		Lecture and Group Work
52			Check-in	Asynchronous	Access to Materials, Self-Learning.	2	Khoo Seok Teng	12-May-26	Tuesday	10:00 am	to	10:00 pm		Check in anytime to get materials for self-learning in "Content" section.
53			Check-in	Asynchronous	Access to Materials, Self-Learning.	2	Khoo Seok Teng	13-May-26	Wednesday	10:00 am	to	10:00 pm		Check in anytime to get materials for self-learning in "Content" section.
54			Check-in	Asynchronous	Access to Materials, Self-Learning. Work on Assignment.	2	Khoo Seok Teng	14-May-26	Thursday	10:00 am	to	10:00 pm		Check in anytime to get materials for self-learning in "Content" section.
55			Assignment/Quiz	Asynchronous	Assignment/Quiz	3	Khoo Seok Teng	15-May-26	Friday	10:00 am	to	10:00 pm		Assignment/Quiz due date
56			Lecture	F2F	Data Manipulation in Tableau; Creating charts to explore data using charts	3	Khoo Seok Teng	16-May-26	Saturday	9:00 am	to	12:00 pm	LT701	Lecture and Group Work
			Lecture	F2F	Career Pathfinder Series - Module 6 - Career Transition and Stabilization		Justus Teo	16-May-26	Saturday	1:30 pm	to	4:30 pm	LT701	
57	Wk 12	Manage and Manipulate data within Tableau; Exploring data using charts	Check-in	Asynchronous	Access to Materials, Self-Learning. Work on Assignment.	2	Khoo Seok Teng	18-May-26	Monday	10:00 am	to	10:00 pm		Check in anytime to get materials for self-learning in "Content" section.
58			Check-in	Asynchronous	Access to Materials, Self-Learning. Work on Assignment.	2	Khoo Seok Teng	19-May-26	Tuesday	10:00 am	to	10:00 pm		Check in anytime to get materials for self-learning in "Content" section.
59			Check-in	Asynchronous	Access to Materials, Self-Learning. Work on Assignment.	2	Khoo Seok Teng	20-May-26	Wednesday	10:00 am	to	10:00 pm		Check in anytime to get materials for self-learning in "Content" section.
60			Check-in	Asynchronous	Access to Materials, Self-Learning. Work on Assignment.	2	Khoo Seok Teng	21-May-26	Thursday	10:00 am	to	10:00 pm		Check in anytime to get materials for self-learning in "Content" section.
61			Assignment/Quiz	Asynchronous	Assignment/Quiz	3	Khoo Seok Teng	22-May-26	Friday	10:00 am	to	10:00 pm		Assignment/Quiz due date
62			Lecture	F2F	Creating dashboards with interactivity and telling story using Tableau	3	Khoo Seok Teng	23-May-26	Saturday	9:00 am	to	12:00 pm	LT701	Lecture and Group Work
63	Wk 13	Creating Dashboards and Telling Story using Tableau	Check-in	Asynchronous	Access to Materials, Self-Learning. Work on Assignment.	2	Khoo Seok Teng	25-May-26	Monday	10:00 am	to	10:00 pm		Check in anytime to get materials for self-learning in "Content" section.
64			Lecture	Synchronous	Extra Session - Week 2 Recap	3	Khoo Seok Teng	26-May-26	Tuesday	7:00 pm	to	9:00 pm		Not Compulsory to Attend
65								27-May-26	Wednesday					Hari Raya Haji Holiday
66			Check-in	Asynchronous	Access to Materials, Self-Learning. Work on Assignment.	2	Khoo Seok Teng	28-May-26	Thursday	10:00 am	to	10:00 pm		Check in anytime to get materials for self-learning in "Content" section.
67			Assignment/Quiz	Asynchronous	Assignment/Quiz	3	Khoo Seok Teng	29-May-26	Friday	10:00 am	to	10:00 pm		Assignment/Quiz due date
68	Wk 14	Apply basic predictive analytics using Clusters and Forecasting	Check-in	Asynchronous	Access to Materials, Self-Learning.	2	Khoo Seok Teng	1-Jun-26	Monday	10:00 am	to	10:00 pm		Check in anytime to get materials for self-learning in "Content" section.

69		Check-in	Asynchronous	Access to Materials, Self-Learning.	2	Khoo Seok Teng	2-Jun-26	Tuesday	10:00 am	to	10:00 pm		Check in anytime to get materials for self-learning in "Content" section.
70		Lecture	Synchronous	Basic Predictive Analytics using Clusters and Forecasting	3	Khoo Seok Teng	3-Jun-26	Wednesday	7:00 pm	to	10:00 pm		Lecture and Group Work
71		Check-in	Asynchronous	Access to Materials, Self-Learning.	2	Khoo Seok Teng	4-Jun-26	Thursday	10:00 am	to	10:00 pm		Check in anytime to get materials for self-learning in "Content" section.
72		Assignment/Quiz	Asynchronous	Assignment/Final Module Quiz	3	Khoo Seok Teng	5-Jun-26	Friday	10:00 am	to	10:00 pm		Assignment/Quiz due date

-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