

Schedule for SCTP Advanced Professional Certificate (APC) in Data Analytics: 21 Sep 26 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 and SQL Statements Week 2: Understanding Data Model Documentation Week 3: 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	21-Sep-26	Monday	7:00 PM	to	9:00 PM		Introductory Lecture
2			Check-in	Asynchronous	Access to Materials, Self-Paced Learning.	3	Kan Hwa Heng	22-Sep-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	23-Sep-26	Wednesday	7:00 PM	to	10:00 PM		Lecture and Group Work
4			Check-in	Asynchronous	Access to Materials, Self-Paced Learning.	4	Kan Hwa Heng	24-Sep-26	Thursday	10:00 AM	to	10:00 PM		Check in anytime to get materials for self-learning in "Content" section.
5			Check-in	Asynchronous	Access to Materials, Self-Paced Learning.	2	Kan Hwa Heng	25-Sep-26	Friday	10:00 AM	to	10:00 PM		Work on Weekly assignment
6			Assignment/Quiz	Asynchronous	Assignment/Quiz	1	Kan Hwa Heng	25-Sep-26	Friday	10:00 AM	to	10:00 PM		Assignment/Quiz due date
7	Wk 2		Check-in	Asynchronous	Access to Materials, Self-Paced Learning.	4	Kan Hwa Heng	28-Sep-26	Monday	10:00 AM	to	10:00 PM		Check in anytime to get materials for self-learning in "Content" section.
8			Lecture	Synchronous	Introduction to Relational Databases and SQL statements.	3	Kan Hwa Heng	29-Sep-26	Tuesday	7:00 PM	to	10:00 PM		Lecture and Group Work
9			Lecture	Synchronous	SQL Statements. Data model documentation.	3	Kan Hwa Heng	30-Sep-26	Wednesday	7:00 PM	to	10:00 PM		Lecture and Group Work
10			Check-in	Asynchronous	Access to Materials, Self-Paced Learning.	4	Kan Hwa Heng	1-Oct-26	Thursday	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.	2	Kan Hwa Heng	2-Oct-26	Friday	10:00 AM	to	10:00 PM		Work on Weekly assignment
12			Assignment/Quiz	Asynchronous	Assignment/Quiz	1	Kan Hwa Heng	2-Oct-26	Friday	10:00 AM	to	10:00 PM		Check in anytime to get materials for self-learning in "Content" section.
			Lecture	F2F	Career Pathfinder Series - Module 1 - Fundamentals of Career Discovery Navigation and Readiness		Justus Teo	3/10/2026	Saturday	9:30 AM	to	12.30pm		Lecture and Group Work
13	Wk 3		Check-in	Asynchronous	Access to Materials, Self-Paced Learning.	4	Kan Hwa Heng	5-Oct-26	Monday	10:00 AM	to	10:00 PM		Check in anytime to get materials for self-learning in "Content" section.
14			Check-in	Asynchronous	Access to Materials, Self-Paced Learning.	4	Kan Hwa Heng	6-Oct-26	Tuesday	10:00 AM	to	10:00 PM		Check in anytime to get materials for self-learning in "Content" section.
15			Lecture	Synchronous	Shaping Data with SQL.	3	Kan Hwa Heng	7-Oct-26	Wednesday	7:00 PM	to	10:00 PM		Lecture and Group Work
16			Check-in	Asynchronous	Access to Materials, Self-Paced Learning.	4	Kan Hwa Heng	8-Oct-26	Thursday	10:00 AM	to	10:00 PM		Check in anytime to get materials for self-learning in "Content" section.
17			Check-in	Asynchronous	Access to Materials, Self-Paced Learning.	2	Kan Hwa Heng	9-Oct-26	Friday	10:00 AM	to	10:00 PM		Work on Weekly assignment
18			Assignment/Quiz	Asynchronous	Group Assignment Submission	1	Kan Hwa Heng	9-Oct-26	Friday	10:00 AM	to	10:00 PM		Assignment/Quiz due date
		Communicating Insights.		Synchronous and	LEARNING OBJECTIVES:	60	Khoo Seok Teng							Participants will be required to download FREE version of TABLEAU Public
1	Wk 4		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	12-Oct-26	Monday	7:00 PM	to	10:00 PM		Lecture and Group Work
17			Check-in	Asynchronous	Access to Materials, Self-Paced Learning. Work on Assignment.	5	Khoo Seok Teng	13-Oct-26	Tuesday	10:00 AM	to	10:00 PM		Check in anytime to get materials for self-learning in "Content" section.
18			Lecture	Synchronous	Data Manipulation in Tableau; Creating charts to explore data using charts	3	Khoo Seok Teng	14-Oct-26	Wednesday	7:00 PM	to	10:00 PM		Lecture and Group Work
19			Check-in	Asynchronous	Access to Materials, Self-Paced Learning. Work on Assignment.	5	Khoo Seok Teng	15-Oct-26	Thursday	10:00 AM	to	10:00 PM		Check in anytime to get materials for self-learning in "Content" section.
5			Check-in	Asynchronous	Access to Materials, Self-Paced Learning.	2	Khoo Seok Teng	16-Oct-26	Friday	10:00 AM	to	10:00 PM		Work on Weekly assignment
20			Assignment/Quiz	Asynchronous	Assignment/Quiz	1	Khoo Seok Teng	16-Oct-26	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	17-Oct-26	Saturday	9.30am	to	12.30pm		
21	Wk 5		Check-in	Asynchronous	Access to Materials, Self-Paced Learning. Work on Assignment.	5	Khoo Seok Teng	19-Oct-26	Monday	10:00 AM	to	10:00 PM		Check in anytime to get materials for self-learning in "Content" section.
23			Lecture	Synchronous	Creating dashboards with interactivity and telling story using Tableau	3	Khoo Seok Teng	20-Oct-26	Tuesday	7:00 PM	to	10:00 PM		Lecture and Group Work
22			Check-in	Asynchronous	Access to Materials, Self-Paced Learning. Work on Assignment.	5	Khoo Seok Teng	21-Oct-26	Wednesday	10:00 AM	to	10:00 PM		Check in anytime to get materials for self-learning in "Content" section.
24			Lecture	Synchronous	Tutorial session	5	Khoo Seok Teng	22-Oct-26	Thursday	7:00 PM	to	9:00 PM		Tutorial for lesson to-date
5			Check-in	Asynchronous	Access to Materials. Self-Paced Learning.	2	Khoo Seok Teng	23-Oct-26	Friday	10:00 AM	to	10:00 PM		Work on Weekly assignment
25			Assignment/Quiz	Asynchronous	Assignment/Quiz	1	Khoo Seok Teng	23-Oct-26	Friday	10:00 AM	to	10:00 PM		Assignment/Quiz due date
26	Wk 6		Check-in	Asynchronous	Access to Materials, Self-Paced Learning.	5	Khoo Seok Teng	26-Oct-26	Monday	10:00 AM	to	10:00 PM		Check in anytime to get materials for self-learning in "Content" section.
27			Check-in	Asynchronous	Access to Materials, Self-Paced Learning.	5	Khoo Seok Teng	27-Oct-26	Tuesday	10:00 AM	to	10:00 PM		Check in anytime to get materials for self-learning in "Content" section.
28			Lecture	Synchronous	Basic Predictive Analytics using Clusters and Forecasting	3	Khoo Seok Teng	28-Oct-26	Wednesday	7:00 PM	to	10:00 PM		Lecture and Group Work
29			Check-in	Asynchronous	Access to Materials, Self-Paced Learning.	4	Khoo Seok Teng	29-Oct-26	Thursday	10:00 AM	to	10:00 PM		Check in anytime to get materials for self-learning in "Content" section.
5			Check-in	Asynchronous	Access to Materials, Self-Paced Learning.	2	Khoo Seok Teng	30-Oct-26	Friday	10:00 AM	to	10:00 PM		Work on Weekly assignment
30			Assignment/Quiz	Asynchronous	Assignment/Final Module Quiz	1	Khoo Seok Teng	30-Oct-26	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	31-Oct-26	Saturday	9.30am	to	12.30pm		
		Analysing and Interpreting Data		Synchronous and Asynchronous	LEARNING OBJECTIVES: Week 6: Introduction to Business Analytics, Data Cleaning and Time Series Analysis Week 7: Time Series & Benchmarking Week 8: Forecasting, Scenarios Week 9: Scenarios, Correlations Analysis Week 10: Project Week, Presentations	65	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.
31	Wk 6	Introduction to Data Analysis and Interpretation	Check-in	Asynchronous	Access to Materials, Self-Learning. Work on Assignment.	3	Francis Tay	26-Oct-26	Monday	10:00 AM	to	10:00 PM		Check in anytime to get materials for self-learning in "Content" section.
32		Data Cleaning, Time Series	Lecture	Synchronous	Introduction to Module and Data Cleaning	3	Francis Tay	27-Oct-26	Tuesday	7:00 PM	to	10:00 PM		Introduction and the use of Excel for data analysis, Excel Hands-on work.
34			Check-in	Asynchronous	Access to Materials, Self-Learning. Work on Assignment.	3	Francis Tay	28-Oct-26	Wednesday	10:00 AM	to	10:00 PM		Check in anytime to get materials for self-learning in "Content" section.
34			Check-in	Asynchronous	Access to Materials, Self-Learning. Work on Assignment.	3	Francis Tay	29-Oct-26	Thursday	10:00 AM	to	10:00 PM		Check in anytime to get materials for self-learning in "Content" section.
33			Lecture	Synchronous	Time Series Analysis & Benchmarking	3	Francis Tay	30-Oct-26	Friday	7:00 PM	to	10:00 PM		Use of Excel and hand-on work.
35			Assignment/Quiz	Asynchronous	Assignment/Quiz	1	Francis Tay	30-Oct-26	Friday	10:00 AM	to	10:00 PM		Assignment/Quiz due date
36	Wk 7	Benchmarking, Project Part 1	Check-in	Asynchronous	Access to Materials, Self-Learning.	3	Francis Tay	2-Nov-26	Monday	10:00 AM	to	10:00 PM		Check in anytime to get materials for self-learning in "Content" section.
37			Check-in	Asynchronous	Access to Materials, Self-Learning. Work on Assignment.	3	Francis Tay	3-Nov-26	Tuesday	10:00 AM	to	10:00 PM		Check in anytime to get materials for self-learning in "Content" section.
38			Lecture	Synchronous	Benchmarking	3	Francis Tay	4-Nov-26	Wednesday	7:00 PM	to	10:00 PM		Use of Excel and hand-on work.
39			Check-in	Asynchronous	Access to Materials, Self-Learning. Work on Assignment.	3	Francis Tay	5-Nov-26	Thursday	10:00 AM	to	10:00 PM		Check in anytime to get materials for self-learning in "Content" section.
40			Assignment/Quiz	Asynchronous	Assignment/Quiz	1	Francis Tay	6-Nov-26	Friday	10:00 AM	to	10:00 PM		Assignment/Quiz due date
			Lecture	F2F	Career Pathfinder Series - Modules 4 - Career Readiness Prep - Interview prep + mock interviews		Justus Teo	7-Nov-26	Saturday	9:30 AM	to	12:30 PM		
41	Wk 8	Forecasting Techniques	Check-in	Asynchronous	Access to Materials, Self-Learning.	3	Francis Tay	9-Nov-26	Monday	10:00 AM	to	10:00 PM		Check in anytime to get materials for self-learning in "Content" section.
42			Check-in	Asynchronous	Access to Materials, Self-Learning. Work on Assignment.	3	Francis Tay	10-Nov-26	Tuesday	10:00 AM	to	10:00 PM		Check in anytime to get materials for self-learning in "Content" section.
43			Lecture	Synchronous	Forecasting	3	Francis Tay	11-Nov-26	Wednesday	7:00 PM	to	10:00 PM		Use of Excel and hand-on work.
44			Check-in	Asynchronous	Access to Materials, Self-Learning. Work on Assignment.	3	Francis Tay	12-Nov-26	Thursday	10:00 AM	to	10:00 PM		Check in anytime to get materials for self-learning in "Content" section.
45			Assignment/Quiz	Asynchronous	Assignment/Quiz	1	Francis Tay	13-Nov-26	Friday	10:00 AM	to	10:00 PM		Assignment/Quiz due date
48	Wk 9	Correlations Analysis	Check-in	Asynchronous	Access to Materials, Self-Learning.	3	Francis Tay	16-Nov-26	Monday	10:00 AM	to	10:00 PM		Check in anytime to get materials for self-learning in "Content" section.
48			Check-in	Asynchronous	Access to Materials, Self-Learning. Work on Assignment.	3	Francis Tay	17-Nov-26	Tuesday	10:00 AM	to	10:00 PM		Use of Excel and hand-on work.
48			Lecture	Synchronous	Scenarios, Correlation Analysis	3	Francis Tay	18-Nov-26	Wednesday	7:00 PM	to	10:00 PM		Check in anytime to get materials for self-learning in "Content" section.
48			Check-in	Asynchronous	Access to Materials, Self-Learning. Work on Assignment.	3	Francis Tay	19-Nov-26	Thursday	10:00 AM	to	10:00 PM		Check in anytime to get materials for self-learning in "Content" section.
48			Assignment/Quiz	Asynchronous	Assignment/Quiz	1	Francis Tay	20-Nov-26	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	21-Nov-26	Saturday	10:00am	to	1:00pm		
49			Lecture	Synchronous	Project Consult, Revision	2	Francis Tay	21-Nov-26	Saturday	2:00 PM	to	4:00 PM		Use of Excel and hand-on work.
50	Wk 10	PROJECT WEEK	Check-in	Asynchronous	Work on Excel Dashboard Project	3	Francis Tay	23-Nov-26	Monday	10:00 AM	to	10:00 PM		Use of Excel and Work on project.
51			Check-in	Asynchronous	Work on Excel Dashboard Project	3	Francis Tay	24-Nov-26	Tuesday	10:00 AM	to	10:00 PM		Use of Excel and Work on project.
52			Lecture	Synchronous	Tutorial session - Zoom	2	Francis Tay	25-Nov-26	Wednesday	7:00 PM	to	9:00 PM		Recap session
53			Assignment/Quiz	Asynchronous	Assignment/Quiz	1	Francis Tay	26-Nov-26	Thursday	10:00 AM	to	10:00 PM		Assignment/Quiz due date
54			Lecture	Synchronous	Project Presentations	3	Francis Tay	27-Nov-26	Friday	7:00 PM	to	10:00 PM		Presentations

-All lectures will be facilitated virtually unless otherwise stated

-F2F lectures will be held at NTU@one-north campus (11 Silem Barracks Rise, Singapore 138964)

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