

**Schedule for SCTP in Data and Information Literacy Upgrading Programme (DIAL-UP) - Cohort 3**

SN	Week	Module Name	Date	Mode of Delivery / Duration / Activity
		<b>Data Management, Data Wrangling and Exploratory Data Analysis (EDA)</b>		<b>LEARNING OBJECTIVES:</b> <b>Week 1:</b> Introduction to Data Management and Wrangling and EDA concepts <b>Week 2:</b> Introduction to Relational Databases and SQL Statements <b>Week 3:</b> Understanding Data Model Documentation <b>Week 4:</b> Shaping Data with SQL
1	Wk 1	Introduction to Data Management and Wrangling and EDA concepts	15-May-23	Online lecture from 19:00 to 20:00 - Introduction to Module
2			16-May-23	Self-pace learning for 2 hour(s) anytime between 10:00 to 22:00 - Access to Materials, Self-Learning.
3			17-May-23	Online lecture from 19:00 to 22:00 - Introduction to Data Management, Data Wrangling and EDA
4			18-May-23	Self-pace learning for 2 hour(s) anytime between 10:00 to 22:00 - Access to Materials, Self-Learning. Work on Assignment.
5			19-May-23	Self-pace learning for 2 hour(s) anytime between 10:00 to 22:00 - Assignment/Quiz
6	Wk 2	Introduction to Relational Databases and SQL statements	22-May-23	Self-pace learning for 1 hour(s) anytime between 10:00 to 22:00 - Access to Materials, Self-Learning.
7			23-May-23	Self-pace learning for 2 hour(s) anytime between 10:00 to 22:00 - Access to Materials, Self-Learning.
8			24-May-23	Self-pace learning for 2 hour(s) anytime between 10:00 to 22:00 - Access to Materials, Self-Learning.
9			25-May-23	Self-pace learning for 2 hour(s) anytime between 10:00 to 22:00 - Access to Materials, Self-Learning. Work on Assignment.
10			26-May-23	Self-pace learning for 2 hour(s) anytime between 10:00 to 22:00 - Assignment/Quiz
11			27-May-23	Physical lecture at NTU@one-north campus from 10:00 to 12:00 - Introduction to Relational Databases and SQL statements.
12	Wk 3	Introduction to Data Model Documentation	29-May-23	Self-pace learning for 2 hour(s) anytime between 10:00 to 22:00 - Access to Materials, Self-Learning.
13			30-May-23	Self-pace learning for 2 hour(s) anytime between 10:00 to 22:00 - Access to Materials, Self-Learning.
14			31-May-23	Self-pace learning for 2 hour(s) anytime between 10:00 to 22:00 - Access to Materials, Self-Learning.
15			01-Jun-23	Self-pace learning for 3 hour(s) anytime between 10:00 to 22:00 - Access to Materials, Self-Learning. Work on Assignment.
16			02-Jun-23	Holiday
17	03-Jun-23	Physical lecture at NTU@one-north campus from 10:00 to 12:00 - SQL Statements. Data model documentation.		
18	Wk 4	Shaping data with SQL	05-Jun-23	Self-pace learning for 1 hour(s) anytime between 10:00 to 22:00 - Access to Materials, Self-Learning.
19			06-Jun-23	Self-pace learning for 2 hour(s) anytime between 10:00 to 22:00 - Access to Materials, Self-Learning.
20			07-Jun-23	Online lecture from 19:00 to 22:00 - Shaping Data with SQL.
21			08-Jun-23	Self-pace learning for 3 hour(s) anytime between 10:00 to 22:00 - Access to Materials, Self-Learning. Work on Assignment.
22			09-Jun-23	Self-pace learning for 3 hour(s) anytime between 10:00 to 22:00 - Assignment/Final Module Quiz
		<b>Business Analytics and Forecasting</b>		<b>LEARNING OBJECTIVES:</b> <b>Week 5:</b> Introduction to Business Analytics and Forecasting. <b>Week 6:</b> Basic Data Analysis and Interpretation. <b>Week 7:</b> Benchmarking techniques. <b>Week 8:</b> Forecasting and Trend Analysis <b>Week 9:</b> Project Week 1 <b>Week 10:</b> Project Week 2 + Presentation
21	Wk 5	Introduction and Time Series	12-Jun-23	Online lecture from 19:00 to 20:00 - Introduction to Module
22			13-Jun-23	Self-pace learning for 3 hour(s) anytime between 10:00 to 22:00 - Access to Materials, Self-Learning.
23			14-Jun-23	Online lecture from 19:00 to 22:00 - Time Series Analysis
24			15-Jun-23	Self-pace learning for 3 hour(s) anytime between 10:00 to 22:00 - Access to Materials, Self-Learning. Work on Assignment.
25			16-Jun-23	Self-pace learning for 2 hour(s) anytime between 10:00 to 22:00 - Assignment/Quiz
26	Wk 6	Benchmarking	19-Jun-23	Self-pace learning for 2 hour(s) anytime between 10:00 to 22:00 - Access to Materials, Self-Learning.
27			20-Jun-23	Self-pace learning for 2 hour(s) anytime between 10:00 to 22:00 - Access to Materials, Self-Learning.
28			21-Jun-23	Online lecture from 19:00 to 22:00 - Benchmarking
29			22-Jun-23	Self-pace learning for 3 hour(s) anytime between 10:00 to 22:00 - Access to Materials, Self-Learning. Work on Assignment.
30			23-Jun-23	Self-pace learning for 2 hour(s) anytime between 10:00 to 22:00 - Assignment/Quiz
34			24-Jun-23	Physical lecture at NTU@one-north campus from 10:00 to 12:00 - Benchmarking
31	Wk 7	Forecasting techniques	26-Jun-23	Self-pace learning for 3 hour(s) anytime between 10:00 to 22:00 - Access to Materials, Self-Learning.
32			27-Jun-23	Self-pace learning for 3 hour(s) anytime between 10:00 to 22:00 - Access to Materials, Self-Learning.
33			28-Jun-23	Online lecture from 19:00 to 22:00 - Forecasting
34			29-Jun-23	Holiday
35			30-Jun-23	Self-pace learning for 3 hour(s) anytime between 10:00 to 22:00 - Assignment/Quiz
34	24-Jun-23	Physical lecture at NTU@one-north campus from 10:00 to 12:00 - Forecasting and Scenarios		
36	Wk 8	Dashboarding & Data Storytelling	03-Jul-23	Self-pace learning for 3 hour(s) anytime between 10:00 to 22:00 - Access to Materials, Self-Learning.
37			04-Jul-23	Self-pace learning for 2 hour(s) anytime between 10:00 to 22:00 - Access to Materials, Self-Learning.
38			05-Jul-23	Online lecture from 19:00 to 22:00 - Dashboard and Data Storytelling
39			06-Jul-23	Self-pace learning for 3 hour(s) anytime between 10:00 to 22:00 - Access to Materials, Self-Learning.
40			07-Jul-23	Self-pace learning for 3 hour(s) anytime between 10:00 to 22:00 - Assignment/Final Module Quiz
41	Wk 9	MS Excel PROJECT WEEK 1	10-Jul-23	Self-pace learning for 3 hour(s) anytime between 10:00 to 22:00 - Work on Excel Dashboard Project
42			11-Jul-23	Self-pace learning for 3 hour(s) anytime between 10:00 to 22:00 - Work on Excel Dashboard Project
43			12-Jul-23	Self-pace learning for 3 hour(s) anytime between 10:00 to 22:00 - Work on Excel Dashboard Project
44			13-Jul-23	Self-pace learning for 3 hour(s) anytime between 10:00 to 22:00 - Work on Excel Dashboard Project
45			14-Jul-23	Self-pace learning for 3 hour(s) anytime between 10:00 to 22:00 - Work on Excel Dashboard Project
46	Wk 10	MS Excel PROJECT WEEK 2	17-Jul-23	Self-pace learning for 3 hour(s) anytime between 10:00 to 22:00 - Work on Excel Dashboard Project
47			18-Jul-23	Self-pace learning for 3 hour(s) anytime between 10:00 to 22:00 - Work on Excel Dashboard Project

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48	Wk 10	MS EXCEL PROJECT WEEK 2	19-Jul-23	Self-pace learning for 3 hour(s) anytime between 10:00 to 22:00 - Work on Excel Dashboard Project
49			20-Jul-23	Self-pace learning for 3 hour(s) anytime between 10:00 to 22:00 - Work on Excel Dashboard Project
52			21-Jul-23	Online lecture from 19:00 to 22:00 - Presentation of Excel Project
		<b>Communicating Data Insights through Dashboards and Data Storytelling with Tableau</b>		<b>LEARNING OBJECTIVES:</b> <b>Week 11:</b> Introduction to Data Visualization and Data Storytelling; Basic chart creation in Tableau <b>Week 12:</b> Manage and Manipulate Data within Tableau; Exploring data using charts <b>Week 13 &amp; 14:</b> Creating Dashboards and Telling Story <b>Week 15:</b> Basic Predictive Analytics
51	Wk 11	Introduction to Data Visualization and Data Storytelling. Basic chart creation in Tableau.	24-Jul-23	Online lecture from 19:00 to 20:00 - Introduction to Module
52			25-Jul-23	Self-pace learning for 2 hour(s) anytime between 10:00 to 22:00 - Access to Materials, Self-Learning. Work on Assignment.
53			26-Jul-23	Online lecture from 19:00 to 22:00 - Introduction to Data Visualization and Data Storytelling with Tableau. Familiarise with Tableau Interface and Basic Chart Creation.
54			27-Jul-23	Self-pace learning for 2 hour(s) anytime between 10:00 to 22:00 - Access to Materials, Self-Learning. Work on Assignment.
55			28-Jul-23	Self-pace learning for 2 hour(s) anytime between 10:00 to 22:00 - Assignment/Quiz
56	Wk 12	Manage and Manipulate data within Tableau; Exploring data using charts	31-Jul-23	Self-pace learning for 2 hour(s) anytime between 10:00 to 22:00 - Access to Materials, Self-Learning. Work on Assignment.
57			01-Aug-23	Self-pace learning for 2 hour(s) anytime between 10:00 to 22:00 - Access to Materials, Self-Learning. Work on Assignment.
58			02-Aug-23	Self-pace learning for 2 hour(s) anytime between 10:00 to 22:00 - Access to Materials, Self-Learning. Work on Assignment.
59			03-Aug-23	Self-pace learning for 2 hour(s) anytime between 10:00 to 22:00 - Access to Materials, Self-Learning. Work on Assignment.
60			04-Aug-23	Self-pace learning for 2 hour(s) anytime between 10:00 to 22:00 - Assignment/Quiz
61			05-Aug-23	Physical lecture at NTU@one-north campus from 10:00 to 12:00 - Data Manipulation in Tableau; Creating charts to explore data using charts
61	Wk 13	Creating Dashboards and Telling Story using Tableau	07-Aug-23	Self-pace learning for 2 hour(s) anytime between 10:00 to 22:00 - Access to Materials, Self-Learning. Work on Assignment.
62			08-Aug-23	Self-pace learning for 2 hour(s) anytime between 10:00 to 22:00 - Access to Materials, Self-Learning. Work on Assignment.
63			09-Aug-23	Holiday
64			10-Aug-23	Self-pace learning for 2 hour(s) anytime between 10:00 to 22:00 - Access to Materials, Self-Learning. Work on Assignment.
65			11-Aug-23	Self-pace learning for 2 hour(s) anytime between 10:00 to 22:00 - Assignment/Quiz
66	Wk 14	Creating Dashboards and Telling Story using Tableau	14-Aug-23	Self-pace learning for 2 hour(s) anytime between 10:00 to 22:00 - Access to Materials, Self-Learning.
67			15-Aug-23	Self-pace learning for 2 hour(s) anytime between 10:00 to 22:00 - Access to Materials, Self-Learning.
68			16-Aug-23	Self-pace learning for 1 hour(s) anytime between 10:00 to 22:00 - Access to Materials, Self-Learning.
69			17-Aug-23	Self-pace learning for 2 hour(s) anytime between 10:00 to 22:00 - Access to Materials, Self-Learning. Work on Assignment.
70			18-Aug-23	Self-pace learning for 2 hour(s) anytime between 10:00 to 22:00 - Assignment/Quiz
			19-Aug-23	Physical lecture at NTU@one-north campus from 10:00 to 12:00 - Creating dashboards with interactivity and telling story using Tableau
71	Wk 15	Apply basic predictive analytics using Clusters and Forecasting	21-Aug-23	Self-pace learning for 2 hour(s) anytime between 10:00 to 22:00 - Access to Materials, Self-Learning.
72			22-Aug-23	Self-pace learning for 2 hour(s) anytime between 10:00 to 22:00 - Access to Materials, Self-Learning.
73			23-Aug-23	Online lecture from 19:00 to 22:00 - Basic Predictive Analytics using Clusters and Forecasting
74			24-Aug-23	Self-pace learning for 1 hour(s) anytime between 10:00 to 22:00 - Access to Materials, Self-Learning. Work on Assignment.
75			25-Aug-23	Self-pace learning for 3 hour(s) anytime between 10:00 to 22:00 - Assignment/Final Module Quiz

\* NTU reserves the right to change the date, mode/venue of lesson or cancel class due to unforeseen circumstances.