

NGEE ANN POLYTECHNIC

Data Science Bootcamp (SCTP)

Course Schedule (Oct 2022 intake)

Week	Date/Time	Content
Module 1: Data Wrangling & Statistics for R		
1	20-Oct 2022 (Thu) 6pm-10pm 22-Oct (Sat) 9am – 6pm	Basics of R
2	27-Oct (Thu) 6pm – 10pm 29-Oct (Sat) 9am – 6pm	Basics of R
3	3-Nov (Thu) 6pm – 10pm 5-Nov (Sat) 9am – 6pm	Data wrangling & statistics
4	10-Nov (Thu) 6pm – 10pm 12-Nov (Sat) 9am – 6pm	Data wrangling & statistics
5	17-Nov (Thu) 6pm – 10pm 19-Nov (Sat) 9am – 6pm	Exploratory Data Analysis
6	24-Nov (Thu) 6pm – 10pm <i>Assignment</i>	Exploratory Data Analysis
Module 2: Visualisation of Data with R & Tableau		
7	06-Dec (Tue) 6pm – 10pm 08-Dec (Thu) 6pm – 10pm 10-Dec (Sat) 9am – 1pm	Visualisation of data with R
	Lessons break	Asynchronous learning with DataCamp
8	03-Jan 2023 (Tue) 6pm – 10pm 05-Jan (Thu) 6pm – 10pm 07-Jan (Sat) 9am – 1pm	Visualisation of data with R
9	10-Jan (Tue) 6pm – 10pm 12-Jan (Thu) 6pm – 10pm <i>Assignment</i>	Visualisation of data with R
10	17-Jan (Tue) 6pm – 10pm 18-Jan (Wed) 6pm – 10pm 19-Jan (Thu) 6pm – 10pm	Visualisation of data with Tableau
11	25-Jan (Wed) 6pm – 10pm 26-Jan (Thu) 6pm – 10pm	Visualisation of data with Tableau
12	31-Jan (Tue) 6pm – 10pm 01-Feb (Wed) 6pm – 10pm 02-Feb (Thu) 6pm – 10pm <i>Assignment</i>	Visualisation of data with Tableau
Module 3: Machine Learning Modelling for Decision Intelligence		
13	07-Feb (Tue) 6pm – 10pm 08-Feb (Wed) 6pm – 10pm 09-Feb (Thu) 6pm – 10pm	Introduction to Machine Learning & Regression
14	14-Feb (Tue) 6pm – 10pm 15-Feb (Wed) 6pm – 10pm 16-Feb (Thu) 6pm – 10pm	Supervised learning
15	21-Feb (Tue) 6pm – 10pm 22-Feb (Wed) 6pm – 10pm 23-Feb (Thu) 6pm – 10pm <i>Assignment</i>	Supervised learning

16	02-Mar (Thu) 6pm – 10pm 04-Mar (Sat) 9am – 6pm	Unsupervised learning
17	09-Mar (Thu) 6pm – 10pm 11-Mar (Sat) 9am – 6pm	Cluster analysis & market basket analysis
18	16-Mar (Thu) 6pm – 10pm 18-Mar (Sat) 9am – 6pm	Time series
19	23-Mar (Thu) 6pm – 10pm 25-Mar (Sat) 9am – 6pm <i>Assignment</i>	Neural network
Module 4: Design Thinking Mindset for Data Science & Capstone Project		
20	30-Mar (Thu) 6pm – 10pm 01-Apr (Sat) 9am – 6pm	Design Thinking
21	04-Apr (Tue) 6pm – 10pm 05-Apr (Wed) 6pm – 10pm 06-Apr (Thu) 6pm – 10pm	Data for Decision Intelligence/ Building a Data Science Capstone Project
22	11-Apr (Tue) 6pm – 10pm	Building a Data Science Capstone Project
23	18-Apr (Tue) 6pm – 10pm	Building a Data Science Capstone Project
24	25-Apr (Tue) 6pm – 10pm 28-Apr (Fri) 7pm – 9pm	Building a Data Science Capstone Project/ DEMO day

Public Holidays:

- 24 Oct 2022 (Mon) – Deepavali (Classes not affected)**
- 26 Dec 2022 (Mon) – Christmas Day off (Classes not affected)**
- 2 Jan 2023 (Mon) – New Year's Day off (Classes not affected)**
- 23, 24 Jan 2023 (Mon & Tue) – Chinese New Year (24 Jan 2023 – no lesson)**
- 7 Apr 2023 (Fri) – New Year's Day off (Classes not affected)**
- 22 Apr 2023 (Sat) – Hari Raya Puasa (Classes not affected)**

Note: Schedule may be subject to changes due to circumstances such as adjustments for varying pace of learning or impact due to Covid-19/unforeseen situations etc.

The programme comprises of:

- four modules
- scheduled synchronous learning classes (dates & time stated in this teaching schedule)
- blended synchronous learning (that means, lessons are either conducted face-to-face on-campus or, online synchronously directed by an instructor)
- assessments to demonstrate and exercise the skills that was learnt
- asynchronous off-campus online learning or assessments/project sessions

Module 1 lessons will be conducted face-to-face on-campus. The mode of subsequent lessons will be advised at a later date and will differ based on the needs of the lessons. Face-to-face lessons will be held on Ngee Ann Polytechnic Clementi campus.

Trainees must fulfill minimum attendance requirements and pass the assessments to qualify for course fee subsidies.

Trainees must complete all four modules, including passing all assessments, in order to obtain an electronic Certificate of Performance issued by NP CET Academy at the end of the course.