**Academic Year 2018/2019 (October)**

**ENGINEERING ANALYTIC & Machine Learning WEEKLY LESSON PLANS (Staff Version)**

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| **Wk** | **Dates** | **Laboratory Activities** | **Assessment** |
| 1 | 18 Oct | * Subject Briefing and set ground rules * Seminar 1: Introduction to Engineering Analytic and Machine Learning * Lab 1: Introduction to Python |  |
| 2 | 25 Oct | * Seminar 2: Essential Statistic * Lab 2: Introduction to Python Data structure, Numpy and Pandas |  |
| 3 | 11 Nov | * Seminar 3: Data Cleansing * Lab 3: Data Cleansing |  |
| 4\* | 8 Nov | * Seminar 4: Data Transformation * Lab 4: Data Transformation |  |
| 5 | 15 Nov | * Seminar 5: Data Visualization * Lab 5: Data Visualization |  |
| 6 | 22 Nov | * Seminar 6: Introduction to Linear Machine Learning method * Lab 6: Linear Machine Learning methods |  |
| 7 | 29 Nov | * **Practical Test 1** | Practical Test 1 (15%) |
| 8 | 06 Dec | * Seminar 7: Introduction to Artificial Neural Network * Lab 7: Artificial Neural Network * **Written Test 1** | Written Test 1 (15%)  Make-up Practical Test 1 |
| 9 | 13 Dec | * Seminar 8: Introduction to Deep Learning * Lab 8: Deep Learning * Project Briefing | Make-up Written Test 1 |
| 10/  11\* | 17 Dec  -  28 Dec | Term Break |  |
| 12\* | 3 Jan | * Project Development * Project Checkpoint |  |
| 13 | 10 Jan | * **Practical Test 2** | Practical Test 2 (15%) |
| 14 | 17 Jan | * Project Development * Project Checkpoint | Make-up Practical Test 2 |
| 15 | 24 Jan | * Project Development |  |
| 16 | 31 Jan | * Final Project Assessment | Project (45%) |

\* Public Holidays:

6 November (Tue): Deepavali

25 December (Tue): Christmas Day

31 December (Mon) School not open

1 January (Tue): New Year

5 & 6 Feb (Tue & Wed) Chinese New Year