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| **Academic Year 2018/2019 (April)** **ENGINEERING ANALYTIC** WEEKLY LESSON PLANS (Staff Version) |

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| **Week** | **Date** | **Pre-Lab Activities** | **LAB** |
| **1** | 18/10 | * Mini-Seminar 1: Introduction to Engineering Analytic and Machine Learning. | **Lab 1: Data Analytic Toolbox**   * To install and setup python development environment * Python basic   + Variables   + Operators * Flow Control   + If statements   + For loop   + While loop * List, Tuples and Dictionaries |
| **2** | 25/10 | * Mini-Seminar 2: Introduction to Numpy & Pandas | **Lab 2: Exercise with Numpy & Pandas** |
| **3** | 1/11 | * Min-Seminar 3: Data Manipulation | **Lab 3: Data Handling I** |
| **4** | 8/11 | * Mini-Seminar 4: Data Visualization | **Lab 4: Visualization with Mataplotlib** |
| **5** | 15/11 | **• Practical Test I** |  |
| **6** | 22/11 | * Min-Seminar 5: Data Transformation | **Lab 5: Data Handling II** |
| **7** | 29/11 | * **Min-Seminar 6: Data Aggregate** * **Written Test 1** | **Lab 6:Data Handling III** |
| **8** | 6/12 | * **Min-Seminar 7: Introduction to Machine Learning** | **Lab 7: Linear Regression** |
| **9** | 13/12 | * Mini-Seminar 8: Deep Learning | **Lab 8: Deep Learning** |
| **10/11** |  | Term Break |  |
| **12** | 3/1 | * Project Development |  |
| **13** | 10/1 | * **Practical Test 2** |  |
| **14** | 17/1 | * Project Development | **Project Development**   * Check the progress |
| **15** | 24/1 | * **Project Development** | **Project Development**  Check the progress |
| **16** | 31/1 | * Final Project Assessment | **Project Assessment**   * Final Project Assessment |