

Yuan Ze University
Department of Industrial Engineering and Management
Python Class - Optimization Lab

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Outline (for reference, subject to change):

No.	Content
1 (2021-11-26) (2021-12-03)	Introduction to Python and CoLab: <ul style="list-style-type: none">- Basic data types.- Variables and expressions.- Functions.- Conditional Statements.- Loops.
2 (2021-12-10) (2021-12-17)	Data Structures: <ul style="list-style-type: none">- Lists.- Tuples.- Dictionaries.- NumPy objects.- DataFrames.
3 (TBA) (TBA)	Metaheuristics: <ul style="list-style-type: none">- Simulated Annealing.- Particle Swarm Optimization.- Genetic Algorithm.- Virus Optimization Algorithm**.
4 (TBA) (TBA)	Computer Vision: <ul style="list-style-type: none">- Thresholding.- Image pre-processing.- Template matching.- Edge detection.
5 (TBA) (TBA)	Deep Learning: <ul style="list-style-type: none">- Classification models and architectures.- Hyperparameters selection.