

MATRICULATION PROGRAM OF TWO SEMESTER SYSTEMS 2025/2026
TEACHING AND LEARNING ACADEMIC CALENDAR (RANCANGAN MENGAJAR SEMESTER)
COMPUTER PROGRAMMING 2 – SEMESTER 2 (CP125)

KULIAH TUTORIAL PRACTICAL PRACTICAL TEST ASSIGNMENT

Week	Course Framework SLT (Face-to-face)			Remark
	Lecture CLO1 (11hours)	Tutorial CLO2 (36 hours)	Practical CLO3 (42 hours)	
1 01/12/2025 - 05/12/2025	<ul style="list-style-type: none"> - Course briefing (1 hour) Topic 1: Pre-defined and User-defined Functions (a) Identify concepts of functions (1/4 hours) 	<ul style="list-style-type: none"> - Course briefing (1 hour) Topic 1: Pre-defined and User-defined Functions (b) Explain the concept of functions (1/9 hours) 	<ul style="list-style-type: none"> - Course briefing (1 hour) Topic 1: Pre-defined and User-defined Functions (d) Construct a function components (3/9 hours) 	
2 08/12/2025 - 12/12/2025	Topic 1: Pre-defined and User-defined Functions (c) Identify the components of a function (3/4 hours)	Topic 1: Pre-defined and User-defined Functions (e) Construct a complete function using arguments with/without return values (5/9 hours)	Topic 1: Pre-defined and User-defined Functions (g) Apply a function using arguments with/without return values and call function (2/4 hours)	

3 15/12/2025 - 19/01/2025	Topic 1: Pre-defined and User-defined Functions (f) Identify how to call functions and write simple user-defined functions to perform calculation (4/4 hours)	Topic 1: Pre-defined and User-defined Functions (e) Construct a complete function using arguments with/without return values (7/9 hours)	Topic 1: Pre-defined and User-defined Functions (h) Construct a Python program using user-defined functions with control structures (4/4 hours)	Lab Test 1
Cuti Khas Semester (Hari Krismas) 20/12/2025 - 28/12/2025				
4 29/12/2025 - 02/01/2026	Topic 2: Lists (a) Identify concepts of lists (1/2 hours)	Topic 1: Pre-defined and User-defined Functions (i) Write functions that use control structures (sequence, selection and repetition) (9/9 hours)	Topic 2: Lists (e) Apply list operators. (+,* ,in) (2/12 hours)	TAHUN BARU 2026 01/01/2026
5 05/01/2026 - 09/01/2026	Topic 2: Lists (f) Identify pre-defined list functions (len(), min(), max(), sum() and append()) (2/2 hours)	Topic 2: Lists (b) Explain the concept of lists (2/13 hours)	Topic 2: Lists (h) Apply predefined list functions len(), min(), max(), sum() & method append() (4/12 hours)	

6 12/01/2026 - 16/01/2026	Topic 2: Lists (b) Explain the concept of lists (4/13 hours)	Topic 2: Lists (h) Apply predefined list functions len(), min(), max(), sum() & method append() (6/12 hours)	Topic 2: Lists (m) Apply list with control structures in problem solving (8/12 hours)	Assignment
7 19/01/2026 - 23/01/2026	Topic 2: Lists (c) Create lists and access elements using indexing and for loop statement (6/13 hours)	Topic 2: Lists (d) Update list elements using assignment statement (8/13 hours)	Topic 2: Lists (n) Apply list and user-defined functions in problem solving (10/12 hours)	Assignment
8 26/01/2026 - 30/01/2026	Topic 2: Lists (g) Construct Python programs using len(), min(), max(), sum() and append() (i) Add new elements to a list using append() method (10/13 hours)	Topic 2: Lists (j) Remove elements from a list using remove() method (k) Sort list in ascending or descending order using sort() method (12/13 hours)	Topic 2: Lists (o) Construct a Python program using list functions and methods with control structures. 12/12 hours)	Assignment
9 02/02/2026 - 06/02/2026	Topic 3: Tuples, Sets and Dictionaries (a) Identify concept of Tuples, Sets and Dictionaries (1/2 hours)	Topic 2: Lists (l) Search element from a list using index() method (13/13 hours)	Topic 3: Tuples, Sets and Dictionaries (c) Apply Tuples, Sets and Dictionaries in problem solving (2/4 hours)	Lab Test 2

10 09/02/2026 - 13/02/2026	Topic 3: Tuples, Sets and Dictionaries (a) Identify concept of Tuples, Sets and Dictionaries (2/2 hours)	Topic 3: Tuples, Sets and Dictionaries (b) Construct simple programs using Tuples, Sets and Dictionaries (2/4 hours)	Topic 3: Tuples, Sets and Dictionaries (c) Apply Tuples, Sets and Dictionaries in problem solving (4/4 hours)	
Cuti Pertengahan Semester (Tahun Baru Cina) 17/02/2026 - 18/02/2026				
11 23/02/2026 - 27/02/2026	Topic 4: Files (a) Identify the use of input/output files using CSV and text files (1/1 hours)	Topic 3: Tuples, Sets and Dictionaries (b) Construct simple programs using Tuples, Sets and Dictionaries (4/4 hours)	Topic 4: Files (c) Apply open() function to open a file (2/10 hours)	
12 02/03/2026 - 06/03/2026		Topic 4: Files (b) Construct Python programs that read from and write to CSV or text files (2/4 hours)	Topic 4: Files (d) Apply read() function to read input data from a file (4/10 hours)	
13 09/03/2026 - 13/03/2026	Topic 4: Files (f) Apply close() method to close a file (8/10 hours)	Topic 4: Files (g) Construct a Python program using data from file in problem solving (with list and function) (2/4 hours)	Topic 4: Files (e) Apply write() function to save output data to a file (6/10 hours)	

14 (A)	Topic 5: DataFrames	Topic 5: DataFrames	Topic 4: Files	Lab Test 3
16/03/2026 - 17/03/2026	(a) Identify basic Pandas Dataframe properties and methods (shape, columns, index, info(), head(), and tail()) (1/1 hours)	(b) Construct Python programs using Pandas DataFrame properties and methods (shape, columns, index, info(), head(), and tail()) (2/2 hours)	(h) Construct a Python program that reads a file and solves a problem using lists and functions (10/10 hours)	

Cuti Khas Semester (Hari Raya Aidilfitri)**18/03/2026 - 24/03/2026**

14 (B)	Topic 5: DataFrames	Topic 5: DataFrames	Topic 4: Files	Cuti Berganti
25/03/2026 - 27/03/2026	(a) Identify basic Pandas Dataframe properties and methods (shape, columns, index, info(), head(), and tail()) (1/1 hours)	(b) Construct Python programs using Pandas DataFrame properties and methods (shape, columns, index, info(), head(), and tail()) (2/2 hours)	(h) Construct a Python program that reads a file and solves a problem using lists and functions (10/10 hours)	
15 30/03/2025 - 03/04/2025	Topic 6: Data Analysis and Visualisation (a) Identify basic Pandas method for data analysis (indexing, describe(), max(), min(), and mean()) (1/1 hour)	Topic 6: Data Analysis and Visualisation (b) Construct a Python program using Pandas methods (indexing, describe(), max(), min(), mean()) (2/4 hours)	Topic 5: DataFrames (c) Apply Pandas with list and CSV files to solve problems (2/2 hours)	

16 06/04/2026 - 10/04/2026	Topic 6: Data Analysis and Visualisation (b) Construct a Python program using Pandas methods (indexing, describe(), max(), min(), mean()) (4/4 hours)	Topic 6: Data Analysis and Visualisation (c) Apply data analysis on selected datasets (indexing, describe(), max(), min(), and mean()) (2/8 hours)	
17 13/04/2026 - 17/04/2026	Topic 6: Data Analysis and Visualisation (d) Construct data visualisations using Matplotlib (line chart and histogram) (6/8 hours)	Topic 6: Data Analysis and Visualisation (c) Apply data analysis on selected datasets (indexing, describe(), max(), min(), and mean()) (4/8 hours)	
18 20/04/2026 - 24/04/2026		Topic 6: Data Analysis and Visualisation (d) Construct data visualisations using Matplotlib (line chart and histogram) (8/8 hours)	
STUDY WEEK 25/04/2026 - 03/05/2026			
SEMESTER EXAM FOR MATRICULATION PROGRAM (PSPM II) 25/04/2026 - 03/05/2026			

Prepared By,



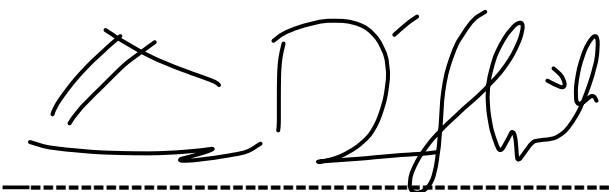
Muhammad Aiman Syahmi Bin Haris
Computer Science Lecturer
Labuan Matriculation College

Checked By,



Zulkarnaen Bin Saridi
Head of Computer Science Unit
Labuan Matriculation College

Verified By,



Mardawiah Binti Tawil
Head of Mathematics Department
Labuan Matriculation College