

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	- Course briefing <div style="text-align: right;">(1 hour)</div> Topic 1: Pre-defined and User-defined Functions (a) Identify concepts of functions <div style="text-align: right;">(1/4 hours)</div>	- Course briefing <div style="text-align: right;">(1 hour)</div> Topic 1: Pre-defined and User-defined Functions (b) Explain the concept of functions <div style="text-align: right;">(1/9 hours)</div>	- Course briefing <div style="text-align: right;">(1 hour)</div> Topic 1: Pre-defined and User-defined Functions (d) Construct a function components <div style="text-align: right;">(3/9 hours)</div>	
2 08/12/2025 - 12/12/2025	Topic 1: Pre-defined and User-defined Functions (c) Identify the components of a function <div style="text-align: right;">(3/4 hours)</div>	Topic 1: Pre-defined and User-defined Functions (e) Construct a complete function using arguments with/without return values <div style="text-align: right;">(5/9 hours)</div>	Topic 1: Pre-defined and User-defined Functions (g) Apply a function using arguments with/without return values and call function <div style="text-align: right;">(2/4 hours)</div>	

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) 16/03/2026 - 17/03/2026	Topic 5: DataFrames (a) Identify basic Pandas Dataframe properties and methods (shape, columns, index, info(), head(), and tail()) (1/1 hours)	Topic 5: DataFrames (b) Construct Python programs using Pandas DataFrame properties and methods (shape, columns, index, info(), head(), and tail()) (2/2 hours)	Topic 4: Files (h) Construct a Python program that reads a file and solves a problem using lists and functions (10/10 hours)	Lab Test 3
Cuti Khas Semester (Hari Raya Aidilfitri) 18/03/2026 - 24/03/2026				
14 (B) 25/03/2026 - 27/03/2026	Topic 5: DataFrames (a) Identify basic Pandas Dataframe properties and methods (shape, columns, index, info(), head(), and tail()) (1/1 hours)	Topic 5: DataFrames (b) Construct Python programs using Pandas DataFrame properties and methods (shape, columns, index, info(), head(), and tail()) (2/2 hours)	Topic 4: Files (h) Construct a Python program that reads a file and solves a problem using lists and functions (10/10 hours)	Cuti Berganti
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)	

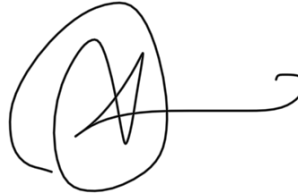
16 06/04/2026 - 10/04/2026		Topic 6: Data Analysis and Visualisation (b) Construct a Python program using Pandas methods (indexing, describe(), max(), min(), mean()) (4/4 hours)	Topic 6: Data Analysis and Visualisation (c) Apply data analysis on selected datasets (indexing, describe(), max(), min(), 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,



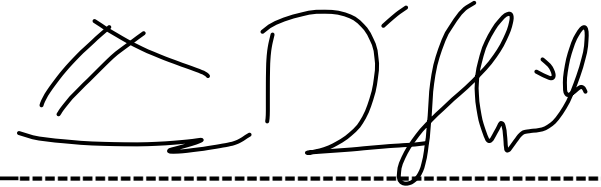
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