

**TEMASEK POLYTECHNIC  
SCHOOL OF INFORMATICS & IT  
DIPLOMA IN INFORMATION TECHNOLOGY  
AY2025/2026 APRIL SEMESTER (LEVEL 2)  
TEACHING PLAN FOR CLOUD APPLICATION DEVELOPMENT (CIT2C24)**

Wk	Commencing	Contact Hours		Non-Contact Hours	ILO		Remarks
		Workshop / Practical / Tutorial		E-Learning/Independent Learning			
		Session #1	Session #2		Contact Hours (4 hr)	Non-Contact Hours (2 hr)	
1 (1)	21 Apr 25	Overview of Cloud Concepts  Lab 1: Getting Started with AWS for Cloud Application Development	Overview of AWS  Lab 2: Getting Started with AWS Management Console	AWS Cloud Practitioner Essentials: Module 1 & 2	ILO1 (4)	ILO1 (2)	Release project specifications
2 (2)	28 Apr 25	Introduction to AWS Databases  Lab 3: Configuring Amazon RDS	Introduction to AWS Databases  Lab 4: Configuring Amazon DynamoDB		ILO1 (2) ILO2 (2)		1 May (Thu): Labor Day
3 (3)	5 May 25	Project Consultation (Proposal)	Project Consultation (Proposal)	AWS Cloud Practitioner Essentials: Module 3 & 4	ILO2 (4)	ILO1 (1) ILO2 (1)	6 May (Tue): Graduation Ceremonies for IIT
4 (4)	12 May 25	FLEX WEEK					
5 (5)	19 May 25	Introduction to AWS Compute	Lab 5: Exploration on AWS Compute Services	AWS Cloud Practitioner Essentials: Module 5 & 6	ILO2 (4)	ILO2 (2)	CCN Day 17 May (Fri, pm) (TBC)  Proposal (20%)
6 (6)	26 May 25	Lab 6: Integrating Amazon RDS with AWS Lambda	Lab 7: Integrating Amazon DynamoDB with AWS Lambda		ILO2 (4)		

7 (7)	2 Jun 25	Introduction to AWS API Gateway	Lab 8: Configuring HTTP API Gateway	AWS Cloud Practitioner Essentials: Module 7 & 8	ILO2 (3) ILO3 (1)	ILO2 (2)	7 June (Sat): Hari Raya Haji
8 (8)	9 Jun 25	TERM TEST					
9 (9)	16 Jun 25	TERM BREAK					
10 (10)	23 Jun 25	TERM BREAK					
11 (11)	30 Jun 25	Lab 9: Exploration on AWS Storage Services	Microservices Solution Demonstration	AWS Cloud Practitioner Essentials: Module 9	ILO3 (3.5)	ILO2 (1) ILO3 (1)	4 Jul (Fri): Mid-Semester CCM (TBC)  <b>Microservices Implementation (20%)</b>  <b>Solution Demonstration (10%) (0.5 hr)</b>
12 (12)	7 Jul 25	Introduction to AWS Storage	Lab 10: Configuring AWS S3		ILO3 (4)		
13 (13)	14 Jul 25	Project Consultation (Cloud Application)	Project Consultation (Cloud Application)	AWS Cloud Practitioner Essentials: Module 10	ILO3 (4)	ILO3 (2)	
14 (14)	21 Jul 25	FLEX WEEK					
15 (15)	28 Jul 25	Cloud Application Solution Demonstration	Cloud Application Solution Demonstration		ILO3 (3.5)		<b>Cloud Application (30%)</b>  <b>Solution Demonstration (10%) (0.5 hr)</b>
16 (16)	4 Aug 25	Revision	Revision		ILO1 (1) ILO2 (2) ILO3 (1)		9 Aug (Sat): National Day

17 (17)	11 Aug 25	Revision	Revision (1 hr)		ILO1 (1) ILO2 (1) ILO3 (1)		
18 (18)	18 Aug 25	STUDY WEEK					Cloud Application Quiz (10%) (1 hr)
		EXAMINATION (25 Aug – 5 Sep 2025)					
		VACATION (6 Sep – 19 Oct 2025)					

### Teaching Team

Names	Contact No.	Email
Ms. Lam Su Yi (Subject Leader)	6780 6938	Lam_su_yi@tp.edu.sg
Mrs. Fang-Fua Ying Huey	6780 5339	fua_ying_huey@tp.edu.sg
Mr. Allen Tan		tanallen@tp.edu.sg

### Total Hours based on Syllabus / Breakdown of Hours

Hours Based on Syllabus		Breakdown of Hours	
Class/Activity	Hours	Face-to-Face	E-Learning/Independent Learning
Workshop	58 hours	46 hours	12 hours
Breakdown of Assessment Hours			
Assessment(s)	2 hours	Solution Demonstration	1 hour
		Quiz	1 hour
<b>Total</b>	60 hours		

## **Assessment**

Type of Assessment	Raw Marks	ILOs covered	Topics tested for assessment	Individual%	Group%
<b>Continual Assessment (100%)</b>					
Proposal (20%)	40 marks	1,2	Lab 1 – 4	20%	
Microservices Implementation (20%)	40 marks	1,2	Lab 3 – 8	20%	
Cloud Application (30%)	60 marks	1,2,3	Lab 1 – 10	30%	
Solution Demonstration (20%)	40 marks	2,3	Lab 3 – 10	20%	
Quiz (10%)	65 marks	1,2,3	Lab 1 – 10	10%	
<b>Total</b>				100%	

### **Assignment (100%)**

The individual project will be used to assess students' application of the concepts and the development process to develop a web application based on a microservices architecture. For the project, the deliverables would include a proposal, the program codes and a presentation and demonstration of the microservices application.

### **Penalties for late submissions**

late and < 1 day: 10% deduction from absolute mark given for the assignment e.g 75 marks (100 marks max) becomes 65 marks (deduct 10% of 100 marks)

late >=1 and <2 days: 20% deduction from absolute mark

late >=2 days: 0 marks awarded

## **References**

1. Amundsen, M. & Mclarty, M. (2017). Microservice architecture. Newton, MA: O'Reilly Media.
2. Newman, S. (2016). Building microservices. Newton, MA: O'Reilly Media .

### **Follow-up in the event of emergencies leading to closure of the Polytechnic**

In the event of the temporary closure of the Polytechnic due to unforeseen circumstances such as severe haze, a pandemic, or other emergencies, students should log in to LMS for instructions on the completion of independent learning activities until the resumption of on-site classes at the Polytechnic. IIT has in place a comprehensive set of eLearning materials to replace face-to-face lessons and these would be made available to students via LMS when classes cannot be conducted on campus.

Prepared by : Ms. Lam Su Yi (Subject Leader)

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Vetted by : Ms. Fua Ying Huey (Manager)

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Approved by : Mr. Sankara (Course Chair)

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