

TEMASEK POLYTECHNIC
SCHOOL OF INFORMATICS & IT
DIPLOMA IN INFORMATION TECHNOLOGY
AY2025/2026 APRIL SEMESTER (LEVEL 2)
TEACHING PLAN FOR AGILE METHODOLOGY AND DESIGN THINKING (CIT2C23)

Wk	Commencing	Contact Hours		Non-Contact Hours	ILO		Remarks
		Workshop		E-Learning/Independent Learning			
		Session #1	Session #2		Contact Hours (4 hr)	Non-Contact Hours (1 hr)	
1 (1)	21 Apr 25	Subject Introduction Introduction to SDLC	Introduction to Agile Methodology	Design Thinking Empathy	ILO2 (4)	ILO1 (1)	Project Release Monday, 21st April 2025, 9:00 am
2 (2)	28 Apr 25	UI/UX Design – Needs Finding	UI/UX Design – Persona, Context Mapping & Empathy Mapping	Thinking Creatively	ILO1 (4)	ILO1 (1)	1 May (Thu): Labor Day
3 (3)	5 May 25	Project Development	Project Development	Project Research (Define)	ILO1 (4)	ILO1 (1)	6 May (Tue): Graduation Ceremonies for IIT
4 (4)	12 May 25	FLEX WEEK					
5 (5)	19 May 25	Scrum Framework (Theory and Artefacts)	PSM Simulation 1 (Scrum Framework)	Scrum Guide – Purpose, Definition, & Theory	ILO2 (4)	ILO2 (1)	CCN Day 17 May (Fri, pm) (TBC)
6 (6)	26 May 25	Introduction to JIRA Part 1 (Epics & Product Backlog)	Scrum Framework - Product Backlog Activity	Scrum Guide – Purpose, Definition, & Theory	ILO2 (2) ILO3 (2)	ILO2 (1)	Case Study - Define (20%) Friday, 30th May 2025, 10:00 am
7 (7)	2 Jun 25	Writing User Stories	User Journey Mapping Introduction to JIRA Part 2 (Sprint Backlog)	Scrum Guide – Artifacts	ILO2 (2) ILO3 (2)	ILO2 (1)	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	Scrum Framework (Scrum Ceremonies)	Scrum Framework (Sprint Planning - Activity)	Scrum Guide – Artifacts	ILO2 (2) ILO3 (2)	ILO2 (1)	4 Jul (Fri): Mid-Semester CCM (TBC)
12 (12)	7 Jul 25	Scrum Framework (Scrum Roles)	Introduction to JIRA Part 3 (Charts and Plugins)	Scrum Guide (Events & Team)	ILO2 (2) ILO3 (2)	ILO2 (1)	Case Study - Ideate (30%) Friday, 11th July 2025, 10:00 am
13 (13)	14 Jul 25	UI Development 1 & 2	Design Thinking Testing	Cone of Uncertainty	ILO1 (2) ILO3 (2)	ILO3 (1)	
14 (14)	21 Jul 25	FLEX WEEK					
15 (15)	28 Jul 25	PSM Simulation 2 (Scrum Framework)	Project Development	Reports & Dashboards (Charts)	ILO1 (2) ILO2 (2)	ILO1 (1)	
16 (16)	4 Aug 25	Project Development	Project Development	Reports & Dashboards (Charts)	ILO1 (2) ILO2 (2)	ILO3 (1)	9 Aug (Sat): National Day Case Study - Prototype (30%) Friday, 8th August 2025, 10:00 am
17 (17)	11 Aug 25	PSM Simulation 3 (Scrum Framework) PSM Simulation 4 (Scrum Framework)	PSM Simulation 4 (Scrum Framework) (1 hr)	Project Research (Prototype & Test)	ILO1 (2) ILO2 (1)	ILO3 (1)	
18 (18)	18 Aug 25	STUDY WEEK					Quiz (20%) - ILO3 (1)

			Friday, 22nd August 2025, 10:00 am
		EXAMINATION (25 Aug – 5 Sep 2025)	
		VACATION (6 Sep – 19 Oct 2025)	
Remark- For the Wk (Week) column, the first number in a row indicated the “physical” week number based on FAST workflow. The second number in bracket is the “logical” week number used within a semester. # - No re-scheduling of classes unless advised by the respective Course Chair			

Teaching Team

Names	Contact No.	Email
Mr. Lau Zhao Hong (Subject Leader)	6780 6919	LAU_Zhao_Hong@TP.EDU.SG
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Total Hours based on Syllabus / Breakdown of Hours

Hours Based on Syllabus		Breakdown of Hours	
Class/Activity	Hours	Contact Hours (Face-to-Face)	Non-Contact Hours (E-Learning/Independent Learning)
Workshop	59 hours	47 hours	12 hours
Breakdown of Assessment Hours			
Assessment	1 hour	Quiz	1 hour
Total	60 hours		

Assessment

Type of Assessment	Raw Marks	ILOs covered	Topics tested for assessment	Individual%	Group%
Continuous Assessment (100%)					
- Case Study (80%)					
• Define	100 marks	1, 2	Week 01 to Week 03 Topics	20%	0%
• Ideate	100 marks	1, 2, 3	Week 05 to Week 07 Topics	30%	

• Prototype	100 marks	1, 2, 3	Week 11 to Week 13 Topics	30%	
- Quiz (20%)	40 marks		Week 05 to Week 16 Topics	20%	
Total				100%	0%

Case Study (80%)

This assessment assesses the students' practical knowledge and technical skills in applying design thinking, Agile methodology processes, and project planning and management techniques. The assessment will include three milestones (Define, Ideate, and Prototype). Students will be required to present their deliverables for each milestone.

Quiz (20%)

This assessment assesses the student's understanding of the Agile methodology – Scrum Framework. It covers the focus area as defined in the Professional Scrum Competencies for Professional Scrum Master 1 Certification.

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

E., W. K., & Joy, B. (2013). Software requirements (Developer best practices) (3rd ed.). Microsoft Press.

Fleischmann, A., Oppl, S., Schmidt, W., & Stry, C. (2020). Contextual process digitalization: Changing perspectives – design thinking – value-led design (1st ed. 2020 ed.). Springer.

Rubin, K. (2012). Essential Scrum: A practical guide to the most popular Agile process (Addison-Wesley Signature Series (Cohn)) (1st ed.). Addison-Wesley Professional.

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 : Mr. Lau Zhao Hong (Subject Leader)

Vetted by : Mr. Tan Hong Yap (Manager)

Approved by : Mr. Sankara Rajulu (Course Chair)
