

Assumption University
Martin de Tours School of Management and Economics
Department of Design and Digital Innovation

INX 2121 – Agile Methods
Semester 2/2023

Course Status : Required Course
Number of Credits : 2 Credits
Pre-requisite(s) : N/A
Code Share(s) : N/A

Instructor(s) : Tapanan Yeophantong (tapanan@vms.au.edu)
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Class Schedule : Sat 09:00-12:00 for section 511, 512, 513 & 514
13:30-16:30 for section 501, 502, 503 & 504
Class Venue : VME0101

Course Description

Agile concept and methodologies as applied in software engineering process and its significance in modern technology innovations. Students learn how agile is used to design and develop rapid prototypes and products that meet the changing needs of the customers.

Text & References

- Andrew Stellman & Jennifer Greene. Learning Agile: Understanding Scrum, XP, Lean, and Kanban. O'Reilly Media, Inc., 2014. (ISBN: 9781449331924)
- Peter Oliver. Agile Software Development: Agile, Scrum, and Kanban for Project Management. Concise Reads, 2018. (ISBN: 9781980630531)
- Ravi Sugar. Jira Quick Start Guide: Manage Your Projects Efficiently Using the All-new Jira. Packt Publishing, 2019. (ISBN: 9781789342673)
- Additional reading materials to be announced in class.

Mark Allocation

+ Exercises & Quizzes (Individual):	40%
+ Term Project:	60%
+ Interim Report (Group):	20%
+ Scrum Master's Evaluation (Individual):	20%
+ Final Report (Group):	20%
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Total :	100%

Course Content & Schedule

Unit	Date	Topics
Module 1 – Agile & Scrum Methodologies		
1	02 Dec 2023	Agile Principles & Practices (A. Tapanan) + Agile teams & development practices + Building an agile software project with your customers
2	16 Dec 2023	Scrum Methodology (A. Thaiya & A. Vibolrottanak) + Understanding scrum methodologies + Working with sprints, team planning & retrospectives
4	23 Dec 2023	Scrum Planning & Collective Commitment (A. Thaiya & A. Vibolrottanak) + Creating user stories + Utilising story points & burndown charts
3	06 Jan 2024	Scrum & Self-organising Teams (A. Thaiya & A. Vibolrottanak) + Mutual project ownership + Harnessing the power of effective self-organizing teams
5	13 Jan 2024	Interim Report (Project Presentation)
Module II – Extreme Programming & Lean Principles		
6	20 Jan 2024	XP & Change Management (A. Taphatson) + Understanding XP principles & practices + Embracing change with XP
7	27 Jan 2024	XP & Continuous Improvement (A. Taphatson) + Continuous integration & refactoring + Incremental design & holistic XP practices
8	03 Feb 2024	Lean Development (A. Tapanan) + Understanding lean principles & practices + Visualising values & wastes using value stream map
9	10 Feb 2024	Kanban & Workflow Management (A. Tapanan) + Understanding Kanban principles & practices + Process improvement with Kanban flow management
10	17 Feb 2024	Final Report (Project Presentation)