St. Francis Xavier's College
2023/2024
Computer Literacy
Course Outline

Level: F.1

Term Seq.	Topic / Main Theme	Mode	No. of Lessons
1.1	Use of Google Account - Gmail and Google Classroom - #Web search and safe web browsing	Lesson	4

1.2	Artificial Intelligence (I)
	- Introduction to AI
	- AI Basics (I)
	  ■ IPO Framework and AI Systems
	  ■ Big Data and the 5Vs
	- AI Ethical Principles
		Lesson	3

1.3	Chinese and English Typing Skill	Self-directed learning	1
1.4	Collaborative Productivity Software (I) - Cloud Storage - Google Docs - Google Slides / Canva	Lesson	12
1.5	Block Programming with Scratch I - Iteration, sub-procedure, events - Conditional expression - Variable and operations - Generation of random numbers - Mouse control - Basic flowcharting and pseudo-coding - Object cloning and user-defined function - Motion simulation - Scene effect and sound control	Lesson + Self-directed learning	10
	● Group Project (40%): Presentation of Google Slides / Canva with the topic of 'Goal Setting' ● Individual Project (50%): Scratch program ● Self-directed Learning Tasks (10%)	Assessment	
2.1	Artificial Intelligence (II) - Computer Vision (I) - Computer Speech and Language (I) - AI in Computer Simulation (I) - AI in Robotic Reasoning (I)	Lesson	4
2.2	Block Programming with Scratch II - Face Recognition - Pose Recognition	Lesson + Self-directed learning	6
2.3	*Laser Cutting (for STEM project)* - Fundamentals of laser cutting - Designing with laser cutting software	Lesson + Self-directed learning	9

2.4	*Microbit* - Introduction of micro:bit - Programming for micro:bit - Variables - Functions - Conditional statement - Using sensors - Scratch X Microbit	Lesson + Self-directed learning	11
	● Individual Project (50%): Scratch program ● Individual Project (50%): STEM Project (Use of laser cutting software)	Assessment	

Term 1 Modes of Assessment and weighting:

Modes	Group Project	Individual Project	Self-directed Learning	Practical Examination
Weights	40%	50%	10%	0%

Term 2 Modes of Assessment and weighting:

Modes	Group Project	Individual Project	Written Examination	Practical Examination
Weights	0%	100%	0%	0%

Remarks:
-- topics with STEM elements
 # -- topics with NSEd elements