## "QAIOT Course" – August 2023 (Find us : Link)

	Date	Content
Week 1	Sunday	First Part:
	Aug. 13 <sup>th</sup>	<ul> <li>Introduction to Machine Learning</li> </ul>
	(22 Mordad)	Supervised Learning
		Quantum Machine Learning Outlook
		Second Part;
		Quantum Operators
		Measurements
		Quantum Circuits
	Tuesday	First Part:
	August 15 <sup>th</sup>	Gradient & Training
	(24 Mordad)	Second Part:
	(24 morada)	State Preparation
		Data Representation (for Quantum Computers )
	Thursday	Lab Session: Hands-on Coding
	August 17 <sup>th</sup>	Lab Session. Hahas-on Coaling
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	(26 Mordad)	Description de la constat
		Programming Assignment 1 (Deadline August 24 <sup>th</sup> )
Week 2	Sunday	First Part
	August 20th	Approximate Time Evolution
	(29 Mordad)	Intro to Quantum Approximation Optimization Algorithm
		(QAOA)
		Second Part
		Ansatzs
	Tuesday	First Part
	August 22 <sup>th</sup>	State Vector Machines (SVM)
	(31 Mordad)	Kernel Function
		Quantum-inspired SVM
		Second Part
		Quantum Variational Classifier
	Thursday	Lab Session: Hands-on Coding
	August 24th	
	(2 Shahrivar)	
	Programming Assignment 2	
		(Deadline August 31 <sup>th</sup> )
Week 3	August 25th	Guest Speakers (4-6 Lectures)
	to	Details To Be Announced
	August 31th	