Part I   Course Overview

Course Title:	FinTech Regulation and RegTech
Course Code:	IS3502
Course Duration:	One Semester (13 weeks)
Credit Units:	3
Level:	B3
Proposed Area: *(for GE courses only)*	☐ Arts and Humanities ☐ Study of Societies, Social and Business Organisations ☐ Science and Technology
Medium of Instruction:	English
Medium of Assessment:	English
Prerequisites: *(Course Code and Title)*	Nil
Precursors: *(Course Code and Title)*	Nil
Equivalent Courses: *(Course Code and Title)*	Nil
Exclusive Courses: *(Course Code and Title)*	Nil

Part II   Course Details

1.   Abstract
(A 150-word description about the course)

The course will provide students with the understanding of the changing landscape in the financial market after the global financial crisis and the need for new regulation requirements for the development in FinTech as well as the development of RegTech, which is the application of new technology in financial market regulation. The course will cover regulations in areas of FinTech such as blockchain, cryptocurrency, electronic and alternative payment, security and biometrics, P2P lending and crowdfunding. It will also cover the areas in RegTech, namely application of big data, cybersecurity, technology for interoperability and regulatory sandboxes.

2.   Course Intended Learning Outcomes (CILOs)
(CILOs state what the student is expected to be able to do at the end of the course according to a given standard of performance.)

No.	CILOs#	Weighting* (if applicable)	Discovery-enriched curriculum related learning outcomes (please tick where appropriate)		
			A1	*A2*	*A3*
1.	Explain the needs for new regulation of FinTech and the applications of technologies in regulation in the changing landscape of the financial market.	20%	✓		
2.	Analyse the needs for regulation of FinTech.	40%	✓	✓	
3.	Analyse and evaluate RegTech options for improvement of compliance and regulatory reporting in financial market.	40%		✓	✓
		100%			

* If weighting is assigned to CILOs, they should add up to 100%.
 # Please specify the alignment of CILOs to the Gateway Education Programme Intended Learning outcomes (PILOs) in Section A of Annex.

A1:   Attitude
Develop an attitude of discovery/innovation/creativity, as demonstrated by students possessing a strong sense of curiosity, asking questions actively, challenging assumptions or engaging in inquiry together with teachers.

A2:   Ability
Develop the ability/skill needed to discover/innovate/create, as demonstrated by students possessing critical thinking skills to assess ideas, acquiring research skills, synthesizing knowledge across disciplines or applying academic knowledge to self-life problems.

A3:   *Accomplishments*
Demonstrate accomplishment of discovery/innovation/creativity through producing /constructing creative works/new artefacts, effective solutions to real-life problems or new processes.

3. Teaching and Learning Activities (TLAs)
(TLAs designed to facilitate students' achievement of the CILOs.)

TLA	Brief Description	CILO No. 1	2	3	Hours/week (if applicable)
TLA1: Lecture	Concepts, frameworks, and technologies of financial market regulation, FinTech regulation and RegTech are explained.	✓	✓	✓	Seminar: 3 Hours/Week
TLA2: Cases Studies	Students are required to analyse regulatory requirements of FinTech and how to apply technologies to financial regulation based on cases and business scenarios.		✓	✓	
TLA3: Online Discussion	It is a means of self-reflection and sharing concepts, techniques, and methods of knowledge management among students within or after formal classes.		✓	✓	

4. Assessment Tasks/Activities (ATs)
(ATs are designed to assess how well the students achieve the CILOs.)

Assessment Tasks/Activities	CILO No. 1	2	3	Weighting*	Remarks#
Continuous Assessment: 50 %					
AT1: Participation Students should participate in class activities, such as small group discussions and presentations, self-reflection, raise and answer questions, and the like. Class participation is used to assess students' understanding of the topics and their abilities to apply the knowledge and concepts taught in class.	✓	✓	✓	10%	
AT2: Individual Assignments Students will answer questions and solve problems in the area of FinTech regulation and RegTech.	✓	✓	✓	10%	
AT3: Group Project A group project, which includes a written report and an oral presentation, will be assigned to students to describe, evaluate and analyse a case related to either FinTech regulation or application of RegTech.	✓	✓	✓	30%	
Examination: 50% (duration: one 2-hour exam)					
AT4: Final Examination An examination to assess students' competence level of the taught subjects.	✓	✓	✓	50%	
* The weightings should add up to 100%.				100%	

Remark: Students must pass BOTH coursework and examination in order to get an overall pass in this course.

5. Assessment Rubrics

(Grading of student achievements is based on student performance in assessment tasks/activities with the following rubrics.)

Assessment Task (AT)	Criterion	Excellent (A+, A, A-)	Good (B+, B, B-)	Fair (C+, C, C-)	Marginal (D)	Failure (F)
AT1: Participation	Ability to accurately explain the concepts related financial market and regulation	High	Significant	Moderate	Basic	Not even reaching marginal levels
	Ability to accurately analyse regulation requirements of FinTech	High	Significant	Moderate	Basic	Not even reaching marginal levels
	Ability to accurately analyse and evaluate the application of technologies in financial compliance and regulation	High	Significant	Moderate	Basic	Not even reaching marginal levels
AT2: Individual Assignments	Ability to demonstrate understanding of the course topics through assignments.	High	Significant	Moderate	Basic	Not even reaching marginal levels
	Ability to accurately analyse regulation requirements of FinTech	High	Significant	Moderate	Basic	Not even reaching marginal levels
	Ability to accurately analyse and evaluate the application of technologies in financial compliance and regulation	High	Significant	Moderate	Basic	Not even reaching marginal levels
AT3: Group Project	Ability to demonstrate understanding of the course topics through group project case study.	High	Significant	Moderate	Basic	Not even reaching marginal levels
	Ability to accurately analyse regulation requirements of FinTech	High	Significant	Moderate	Basic	Not even reaching marginal levels
	Ability to accurately analyse and evaluate the application of technologies in financial compliance and regulation	High	Significant	Moderate	Basic	Not even reaching marginal levels
AT4: Final Examination	Ability to demonstrate understanding of the course topics through group project case study.	High	Significant	Moderate	Basic	Not even reaching marginal levels
	Ability to accurately analyse regulation requirements of FinTech	High	Significant	Moderate	Basic	Not even reaching marginal levels
	Ability to accurately analyse and evaluate the application of technologies in financial compliance and regulation	High	Significant	Moderate	Basic	Not even reaching marginal levels

Part III   Other Information (more details can be provided separately in the teaching plan)

1.   **Keyword Syllabus**
     (An indication of the key topics of the course.)

Financial market; FinTech; Blockchain; Cryptocurrency; Online payment; P2P lending; Crowdfunding; Robo-advisors; RegTech; Anti-money laundering; Big data analysis; Security; Behavioural biometrics; Interoperability; API; Regulatory sandbox.

2.   **Reading List**
2.1 **Compulsory Readings**
     (Compulsory readings can include books, book chapters, or journal/magazine articles. There are also collections of e-books, e-journals available from the CityU Library.)

1.	Janos Barberis, The Regtech Book: The Financial Technology Handbook for Investors, Entrepreneurs and Visionaries in Regulation, 2018.
2.	Stefan Loesch, A Guide to Financial Regulation for Fintech Entrepreneurs, Wiley, 2018.

2.2 **Additional Readings**
     (Additional references for students to learn to expand their knowledge about the subject.)

1.	Policy Framework for Effective and Efficient Financial Regulation, OECD Journal: Financial Market Trends, 2010. https://www.oecd-ilibrary.org/policy-framework-for-effective-and-efficient-financial-regulation_5kmn0vkxwng1.pdf?itemId=%2Fcontent%2Fpaper%2Ffmt-2009-5kmn0vkxwng1&mimeType=pdf
2.	David Lee Kuo Chuen, Robert H. Deng, Handbook of Blockchain, Digital Finance, and Inclusion, Vol. I & II, Elsevier Inc., 2018.
3.	Kristen Silverberg, et al., Regtech in Financial Services: Technology Solutions for Compliance and Reporting, Institute of International Finance, March 2016. https://www.iif.com/system/files/regtech_in_financial_services_-_solutions_for_compliance_and_reporting.pdf
4.	Deloitte, The evolving Fintech regulatory environment – preparing for the inevitable, Centre for Regulatory Strategy, 2017. https://www2.deloitte.com/content/dam/Deloitte/us/Documents/regulatory/us-aers-the-evolving-fintech-regulatory-environment.pdf
5.	Douglas Arner, Janos Barberis, Ross Buckley, FinTech, RegTech and the Reconceptualization of Financial Regulation, Northwestern J. of International Law and Business, October 2016.
6.	Karen Mills, Brayden McCarthy, The State of Small Business Lending: Innovation and Technology and the Implications for Regulation, HBS, Working Paper 17-042, 2016.