

# Programme description Master of Science in Information Systems: FinTech Business Innovation

120 credits

2023-2025

Full time (two years) or Part time (first 60 credits with 50% progression, last 60 credits with 100% progression)

> The programme is accredited by the board 18.10.2022 The programme description is approved by The Education Committee 07.10.22 (UU/EIT-case no. 133/22)

## Index

1.1       PREREQUISITES       1         1.2       ADDITIONAL RECOMMENDED COMPETENCE       2         OBJECTIVE       2         3.       STUDY STRUCTURE         3.1       ACADEMIC PROGRESSION         3.2       COURSES         3.3       ELECTIVE SUBJECTS         3.4       MASTER THESIS (30 CREDITS)         4.       TEACHING METHODS AND ASSESSMENTS         4.1       PEDAGOGICAL PLATFORM AND TEACHING METHODS         4.2       FORMS OF ASSESSMENT         5.       INTERNATIONALISATION AND STUDENT EXCHANGE         5.1       INTERNATIONALIZATION         5.2       INTERNATIONAL STUDENT EXCHANGE	1.	INTR	ODUCTION	3
2. OBJECTIVE       3.         3. STUDY STRUCTURE       3.1         3.1       ACADEMIC PROGRESSION         3.2       COURSES         3.3       ELECTIVE SUBJECTS         3.4       MASTER THESIS (30 CREDITS)         4.       TEACHING METHODS AND ASSESSMENTS         4.1       PEDAGOGICAL PLATFORM AND TEACHING METHODS         4.2       FORMS OF ASSESSMENT         5.       INTERNATIONALISATION AND STUDENT EXCHANGE         1       Student Exchange		1.1	PREREQUISITES	3
3.       STUDY STRUCTURE.         3.1       ACADEMIC PROGRESSION.         3.2       COURSES         3.3       ELECTIVE SUBJECTS.         3.4       MASTER THESIS (30 CREDITS).         4.       TEACHING METHODS AND ASSESSMENTS.         4.1       PEDAGOGICAL PLATFORM AND TEACHING METHODS.         4.2       FORMS OF ASSESSMENT.         5.       INTERNATIONALISATION AND STUDENT EXCHANGE         1       5.1		1.2	Additional Recommended Competence	4
3.1       ACADEMIC PROGRESSION       3.2         3.2       COURSES       3.3         3.3       ELECTIVE SUBJECTS       12         3.4       MASTER THESIS (30 CREDITS)       14         4.       TEACHING METHODS AND ASSESSMENTS       16         4.1       PEDAGOGICAL PLATFORM AND TEACHING METHODS       16         4.2       FORMS OF ASSESSMENT       16         5.       INTERNATIONALISATION AND STUDENT EXCHANGE       17         5.1       INTERNATIONALIZATION       17	2.	OBJE	CTIVE	5
3.2       COURSES       9         3.3       ELECTIVE SUBJECTS       11         3.4       MASTER THESIS (30 CREDITS)       14         4.       TEACHING METHODS AND ASSESSMENTS       16         4.1       PEDAGOGICAL PLATFORM AND TEACHING METHODS       16         4.2       FORMS OF ASSESSMENT       16         5.       INTERNATIONALISATION AND STUDENT EXCHANGE       17         5.1       INTERNATIONALIZATION       17	3.	STUD	Y STRUCTURE	7
3.3       ELECTIVE SUBJECTS       1         3.4       MASTER THESIS (30 CREDITS)       14         4.       TEACHING METHODS AND ASSESSMENTS       16         4.1       PEDAGOGICAL PLATFORM AND TEACHING METHODS       16         4.2       FORMS OF ASSESSMENT       16         5.       INTERNATIONALISATION AND STUDENT EXCHANGE       17         5.1       INTERNATIONALIZATION       17		3.1	ACADEMIC PROGRESSION	8
3.4       MASTER THESIS (30 CREDITS)       14         4.       TEACHING METHODS AND ASSESSMENTS       10         4.1       PEDAGOGICAL PLATFORM AND TEACHING METHODS       10         4.2       FORMS OF ASSESSMENT       10         5.       INTERNATIONALISATION AND STUDENT EXCHANGE       11         5.1       INTERNATIONALIZATION       11		3.2	Courses	9
3.4       MASTER THESIS (30 CREDITS)       14         4.       TEACHING METHODS AND ASSESSMENTS       10         4.1       PEDAGOGICAL PLATFORM AND TEACHING METHODS       10         4.2       FORMS OF ASSESSMENT       10         5.       INTERNATIONALISATION AND STUDENT EXCHANGE       11         5.1       INTERNATIONALIZATION       11		3.3	ELECTIVE SUBJECTS	11
4.1       Pedagogical platform and teaching methods		3.4	Master Thesis (30 credits)	14
4.2       FORMS OF ASSESSMENT       10         5.       INTERNATIONALISATION AND STUDENT EXCHANGE       11         5.1       INTERNATIONALIZATION       11	4.	TEAC	HING METHODS AND ASSESSMENTS	16
5. INTERNATIONALISATION AND STUDENT EXCHANGE       1         5.1       INTERNATIONALIZATION		4.1	PEDAGOGICAL PLATFORM AND TEACHING METHODS	16
5.1 INTERNATIONALIZATION		4.2	FORMS OF ASSESSMENT	16
	5.	INTE	RNATIONALISATION AND STUDENT EXCHANGE	17
		5.1	INTERNATIONALIZATION	17
		5.2		

# 1. Introduction

Information Systems (IS) is both a professional discipline and an academic field, aiming to bridge the technical capabilities of IT with business needs. As an academic discipline, IS investigates a wide range of topics, such as IS strategy and management, business and financial systems, IS development methods, user behavior and usability. It also investigates more theoretical issues, such as the relationship between technology and the social world, and the dynamics of the information society.

In today's technologically advanced business world, digitalization and digital techniques are an integral part of almost every modern organization's strategy. The Master of Science in Information Systems specialization in FinTech Business Innovation is a specialization that brings the worlds of Information Systems and Money together. The curriculum provides students with the knowledge, skills and competences necessary to launch their careers in an ever-changing innovative financial technologies' realm. The specialization combines the research-based and the practical educational methodologies to prepare a graduate who can create FinTech solutions that enhances the sustainability of our societies.

#### The awarding title is *Master of Science in Information Systems*.

IS Master graduates with specialization in FinTech Business Innovation are qualified to work in private businesses, consulting firms, IT development companies, financial institutions, and the public sector. Information Systems professional positions within FinTech are typically Digital Ecosystem Managers, Blockchain Solution Developers and Architects, Business Process Management and Innovation Managers, Business Development Managers, Cyberlaw and Compliance Specialists and Consultants, Financial Technology Advisers, Solution and Application Developers, among others. In addition, general Information Systems roles are also relevant, such as IT managers, Project Managers, Integration Managers, Enterprise Architecture Managers, and Business Developers and Analysts. After completing the master's program, the candidate is also formally qualified for a PhD study in a related area of research.

### 1.1 Prerequisites

Applicants must meet the following requirements:

- Bachelor's degree in information technology, finance management, economics, ebusiness, data science, statistics, or marketing, with an average grade of minimum C equals minimum 2,7 ECTS. Relevant practices, or other special considerations, may in some cases weigh up for non-compliant grade requirements.
- The applicants must also write a motivational letter of 400-500 words max in English.

## 1.2 Additional Recommended Competence

For the specialization in Fintech Business Innovation, we recommend a minimum of 15 ECTS in technology-related subjects (e.g., programming, databases, IT, data analytics) is preferred.. Relevant work experience, or other special considerations, may in some cases be a substitute for these requirements.

# 2. Objective

All study programs at Kristiania University College have established overall learning outcomes that every student is expected to attain after completing the study. Learning outcomes describe what the student is expected to know and be able to achieve as a result of the learning processes associated with the study. Learning outcomes are described in the categories; knowledge, skills and competence<sup>1</sup>.

#### Learning outcome at the Master of Science in Information Systems programme level

#### Knowledge

The candidate...

- has an advanced knowledge of information systems as a research field, in terms of theories, knowledge claims, research methods and professional standards
- can reflect on how information systems contribute to business, decision-making activities and societal aims

#### Skills

The candidate...

- has acquire practical skills in analysing complex IS problems, designing or recommending solutions, and in measuring and evaluating results
- has strong skills in applying research methods and techniques

#### Competence

The candidate...

- can take responsibility for conducting independent research and/or development project at a high standard and in accordance with norms for research ethics
- can choose the appropriate research approach, to choose or develop a solution that meets the organizational requirements, provide value while considering sustainability goals
- can handle organizational relationships ethically, professionally, and to evaluate and communicate the results in a systematic way

<sup>&</sup>lt;sup>1</sup>Les mer om lærintgutbytte og Nasjonal kvalifikasjonsrammeverk her;

https://www.nokut.no/siteassets/nkr/nasjonalt\_kvalifikasjonsrammeverk\_for\_livslang\_laring\_nkr\_nn.pdf

#### Learning outcomes at specialization level

#### Knowledge

#### The candidate...

- has thorough knowledge of theories, methods and applications in the Fintech research field and industry.
- can apply acquired Fintech knowledge ethically to develop innovative solutions to the public and private sectors.

#### Skills

#### The candidate...

- can analyze and deal critically with relevant Fintech theories and applications to develop arguments in implementing Fintech solutions to real-world cases.
- can employ advanced analytical skills independently in applying scientific methods and techniques to Fintech research.
- can plan and carry out an independent limited Fintech research or development projects in accordance with applicable norms for research ethics.

#### Competence

#### The candidate...

- can apply acquired knowledge and skills to introduce innovative Fintech research and strategies in optimizing the use of IS for more sustainable business and society.
- can contribute to state-of-the-art Fintech projects/research and communicate results in the highest academic, professional, and ethical manner.

## 3. Study Structure

The courses are thought as modules, meaning that the students usually will complete one module before starting the next. For full-time students, first year offers eight courses. For parttime students, these eight courses are taken over two years. The second year (third year for parttime students) offers an elective/exchange semester and a Master Thesis semester. Full-time and part time students follow the same progression in their last academic year.

Semester	Master of Science in Information Systems: FinTech Business Innovation Full time				
1. semester	Introduction to IS Research 7,5 ECTS	Entrepreneurial Finance 7,5 ECTS	ance & Applications 7.5 ECTS		
2. semester	Money & CyberlawsMoney & Applied TechnologiesResearch MethodsProp Develor7,5 ECTS7,5 ECTS7,5 ECTS7,5 ECTS				
3. semester	3. semester       Elective         30 ECTS         Student exchange/practice         30 ECTS				
4. semester	Master Thesis 30 ECTS				

#### Table 1. Full Time Study Program structure

\* There may be changes in which electives/elective program course are offered

Compulsory courses Elective courses

Semester	Master of Science in Int	formation Systems: Fin'	<b>Tech Business Innovation Part-time</b>		
1. semester	Introduction to IS Research 7,5 ECTS	Fintech Industry & Applications 7,5 ECTS			
2. semester	Money & Cyberlaws 7,5 ECTS	Research Methods 7,5 ECTS			
3. semester	Entrepreneurial Finance 7,5 ECTS	Ethics, Sustainability and Society 7,5 ECTS			
4. semester	Money & Applied Technologies 7,5 ECTS	Proposal Development 7,5 ECTS			
5. semester		Elective 30 ECTS			
	Exchange 30 ECTS				
6. semester	Master Thesis 30 ECTS				

#### Table 2. Part Time Study Program structure

\* There may be changes in which electives/elective program course are offered

Compulsory courses Elective courses

### 3.1 Academic progression

The academic progression presents the overall model for the Master of Science in Information Systems specialization in FinTech Business Innovation. The first year provides the students with knowledge and skills in Introduction to IS Research, Entrepreneurial Finance, Fintech Industry & Applications, Ethics, Sustainability and Society, Money and Cyberlaws, Money & Applied Technologies, Research Methods, and Proposal Development.

The second year gives students the opportunity to deepen within elective subjects and/or exchange to one of the international institutions that this programme has agreement with. The last semester has a stronger focus on competence, aiming at synthesizing knowledge and skills into the ability to conduct a Master Thesis. During the work with the Master Thesis the student have the opportunity to demonstrate expertise in their chosen research area. Students will acquire specialized problem-solving skills, being able to plan and conduct the steps in the research and/or development process at a high methodological standard. When working with the Master Thesis, a close relationship with a company is recommended.

The academic progression is described according to the full-time programme. Part-time students spend two years completing the first 60 credits (50% progression), while the last 60 credits are completed within one year (100% progression). See tables above for an overview of progress of study for full- and part time progression.

## 3.2 Courses

Course	Credits	Description
Introduction to IS Research*	7,5	The course provides an introduction to the IS research field. Students will gain advanced knowledge of the key concepts and theories of IS research. They will acquire specialised problem-solving skills, being able to analyse and synthesize a research case. They shall take responsibility to a literature review of a specific IS topic. Central topics include Information Systems as a research field, IS development, IS innovation, IS as sociotechnical and complex systems, Introduction to research methods in IS, Basic concepts and theories in IS, Literature reviews and writing style.
Fintech Industry & Applications	7,5	The course is an introduction to the FinTech domain and the underlying technologies that are currently in use today. The course will equip students with the different sub-fields of FinTech in Industries such as banking, asset trading & management, insurance, e-commerce, trading among others. Central topics will cover issues related to the evolution of the FinTech solutions, blockchain applications, emergence of the FinTech markets, FinTech platforms, strategies and business models.
Entrepreneurial Finance	7,5	Students will gain the basic knowledge of understanding how companies and projects are financed, analyzed and valued. The course will be delivered in an entrepreneurial framework preparing students to learn to seek funding. The course will equip students with fundamental knowledge in the concepts of risk & return, finance sources, types, instruments, stages, and optimum capital structures. It will emphasize the financial decision making within businesses. Central topics covered in this course include: the opportunities and challenges of FinTech start-ups, technology financial & investment valuation, FinTech financial incentives, and FinTech applications for sustainability.
Money & Applied Technologies	7,5	This course is designed to introduce students to the concepts of monetary & financial economics such as money supply & management and interest rates. It will magnify the study of the core role of central banks and financial markets & intermediaries. The student will get the in-depth knowledge, of technologies applied from money creation to money transfer. Furthermore, the student will be able to identify the potential contribution of Fintech applications & IS solutions in developing the monetary realm.
Ethics, Sustainability and Society*	7,5	The main aim of this course is to provide students with the fundamental knowledge of ethics and sustainability necessary for responsible innovation and the

		development of new information technologies (IT) in the modern society. The central topics include the role of ethics in responsible innovation and IT development; social, economic, and environmental impacts of innovations and new ITs; and how IT development and innovation can contribute to achieving the UN Sustainable Development Goals. In covering ethical and sustainability issues, the course addresses the perspectives of various stakeholders at the individual level (IT developers, innovators, consumers, investors), the organizational level (commercial, public, and non-governmental organizations), and the societal level (local and regional communities, nations, international society). Group work on possible solutions to real-life ethical and sustainability challenges constitutes an essential part of the course.
Money and Cyberlaws	7,5	This course will introduce students to the surrounding legal domain by covering the laws and regulations related to combining the money and information technology fields. In addition, the course also addresses matters related to privacy regulations (e.g., GDPR). The course will also address issues related to ethical dilemmas arising from selected FinTech applications.
		applications.
Research Methods•	7,5	This course is intended as an introduction to research methodology and the research process. This introduction gives the students an overview of the basic concept, methods, and practice of research. Research is a cyclical process where new and carefully planned investigations build and extend on established work. The aim is to provide students with a fundamental understanding of research as a conceptual, empirical, and practical approach to gathering new insight and knowledge. The content provides a broad overview of how researchers work within the fields of economy, innovation, and technology. It presents students with relevant methods from these domains, along with their possibilities and limitations. Students will learn a systematic approach to empirical investigation, including literature search, research design and methodology, qualitative and quantitative analyses, and the presentation and evaluation of results. At completion of the course, students will be able to study and interpret existing research on a topic and suggest approaches to broaden or deepen knowledge within a given topic.

Proposal Develeopment*	7,5	The overall objective of this course is to help students conceptualize and prepare a timely and relevant research proposal, and to nurture a sense of inquisitiveness and active participation in research. The course aims at offering insight into the process behind a successful research project. It has an applied approach that involves collaborative and reciprocal partnerships between the university (faculty, staff, and/or students) and external communities for the mutually beneficial exchange of knowledge and resources. The research proposal forms the basis for the master thesis
		and the allocation of supervisor(s).

Table 3. Courses' overview

## 3.3 Elective Subjects

Within the students' 3<sup>rd</sup> semester (5<sup>th</sup> for the part-time students), they will have to choose from electable course in the program, which will give them the opportunity to further engage in indepth knowledge of a topic of interest, or to broaden their scope and area of knowledge by selecting a related module that expands their horizon. What topics that can be chosen may vary from year to year. The concrete topics are presented and published therefore early in the spring, in the students' 2<sup>nd</sup> semester (4<sup>th</sup> for the part-time students), together with the deadline for enrolment in individual electable subjects. The proposed elective subjects are presented below (all 7,5 ECTS).

Course	ECTS	Description
IT Strategy and Architecture*	7.5	This course highlights the importance of Information systems (IS) Strategy and architecture in contemporary organizations. Students will gain advanced knowledge of key theories and concepts of strategic use of IS. They will acquire specialized problem-solving skills, being able to conduct a strategic analysis based on accepted frameworks, and to analyze the implications for a company's IT architecture. They shall take responsibility to plan and accomplish an IS strategy process for a case organization, with a proposed architecture.
Consulting and Leadership*	7.5	This course focuses on the soft skills in management of information systems. Students will gain advanced knowledge of theories on leadership, change agents, ethics and required skills within IT-consultancy. They will acquire specialized problem-solving skills, being able to master the personal and organizational techniques required to participate in a change process, practicing leadership and developing professional skills within consulting. They shall take responsibility to

		conduct a minor consulting project thru an agreement, plan and evaluation.
Agile Project Management*	7.5	Organizations need to develop project managers who can complete projects on time and within budget and this course addresses challenges such as the ability to manage projects and stakeholders, risk assessment and agile planning. Students will gain advanced knowledge of the key theories of project management and agile development. They will acquire specialised problem- solving skills, being able to plan and run a time-boxed iteration, and to use a project management tool. Students will take conduct plan, organise and control an agile IS project.
Advanced Visual Analytics*	7.5	Data and visual analytics are an evolving field concerned with analyzing, modeling, and visualizing complex high- dimensional data. This course will introduce students to the data visualization domain by covering state-of-the-art modeling, analysis and advanced visualization techniques. It will emphasize practical challenges involving complex real-world data and include real-world case studies and hands-on work with several leading visual analytics tools and programming languages. Students will gain advanced knowledge of the art of decision-making, as well as acquire specialized problem-solving skills and deliver value to organizations through the development of advanced visualizations.
Investment Analysis & Portfolio Management <sup>†</sup>	7.5	The course will provide students with the advanced knowledge necessary to understand how investment professionals analyze and manage financial assets. Central topics will cover; Understanding securities & estimating expected returns, understanding & measuring risk for individual securities & portfolios, value investing, and applying diversification & optimizations techniques. The student knowledge & skills will be practically applied using state-of-the-art financial markets' simulators. The course will also cover topics such as alternative investments Technology & Investment decisions, and Investment management role in sustainability. Entrepreneurial Finance and Money & Applied Technologies are prerequisites.
Digital Service Innovation <sup>†</sup>	7,5	Although digitalization creates endless opportunities for innovation, incumbent firms find it increasingly more difficult to compete with new, purely digital market entrants. Traditional strategies, organizational structures, processes, and business models seem to be inefficient for growing in the digital age and may even be detrimental for long-term survival. As a result, a financial company' capability for digital service innovation becomes a key

Integrated Business Planning <sup>*</sup>	7.5	success factor for meeting market demands and gaining market share. This course's main objective is to develop a broad understanding of digital service innovation in the FinTech industry. Combining recent research advances with practical perspectives on innovation, the course will focus on the following topics: value creation in the digital service economy, managing the development of new digital services, marketing of digital service innovations, and digital business models and digital transformation. Integrated Business Planning (IBP), also known as Sales and Operations Planning (S&OP), is an effective decision- making process designed to ensure that supply and demand are in balance while meeting the overall strategic intent of the company. The approach focuses on the vertical and horizontal alignment of the company. The former is concerned with intracompany alignment, ensuring that sales, marketing, manufacturing, sourcing, R&D, and finance share a common view of where the business is
		heading. The latter, horizontal alignment, expands the view to incorporate also supply chain partners, such as suppliers and outsourcing partners. The focus is on creating business value with a societal impact, reducing waste and environmental impact while providing the best possible customer service. While IBP can be seen as an essential process in any company, the primary focus of this course is on manufacturing companies. Students will get up-to-date information on the implementation of IBP, including benefits, implementation steps, possible pitfalls, technologies to support the implementation, and links to corporate strategy. The information systems and technology aspects are covered, starting from basic principles to more advanced deployments using commercial software, tying the need for technology to the maturity of the process.
Business Process Management and Innovation <sup>†</sup>	7.5	Business Process Management (BPM) is core area for organizations and specialists that seek business optimization and innovation. BPM is a continuous effort for business process improvement. It is also applied to improve the efficiency of the collective workflows that make up any given business process. BPM has several underlying operations, including BP modeling and re- engineering, which could enable organizations to align business functions with customer needs, help top management to determine how to deploy, monitor and measure company resources, and to make sure that the re- engineered processes fit the aimed technologies. When appropriately achieved, BPM has the ability to enhance efficiency and productivity, reduce costs, enable innovation, and minimize errors and risk – thereby optimizing results.
Ethics, sustainability and society*	7,5	The main aim of this course is to provide students with the fundamental knowledge of ethics and sustainability

	necessary for responsible innovation and the development of new information technologies (IT) in the modern society. The central topics include the role of ethics in responsible innovation and IT development; social, economic, and environmental impacts of innovations and new ITs; and how IT development and innovation can contribute to achieving the UN Sustainable Development Goals. In covering ethical and sustainability issues, the course addresses the perspectives of various stakeholders at the individual level (IT developers, innovators, consumers, investors), the organizational level (commercial, public, and non- governmental organizations), and the societal level (local and regional communities, nations, international society). Group work on possible solutions to real-life ethical and sustainability challenges constitutes an essential part of the course.
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Table 4. Example Electives Overview

 $^{\dagger}$  Sample electives that can be fully developed courses when the specialization is approved.

## 3.4 Master Thesis (30 credits)

The aim of this course is to provide the student with an opportunity to develop systematic understanding and critical awareness on the solution of a relevant problem in the student's focal area. Students will gain advanced knowledge of the research process at master level in information systems, including a deep knowledge of selected theories. They will acquire specialized problem-solving skills, being able to plan and conduct the steps in the research or development process at a high methodological standard. They shall take responsibility to conduct a well planned and executed project at master level.

On a more detailed level, the student will, based on observations of the industry and the existing body of knowledge, develop a research question. Students will also be able to connect their Master Thesis work to one of the ongoing research projects at School of Economics, Innovation and Technology. Furthermore, the student will conduct an extensive literature review in order to map what is already known about the chosen research question. Building on this, the student will carry out the research. This usually includes collecting his or her own data, which can be done by means of surveys, interviews, experiments, observations, and more. The data are to be analysed in a thorough manner before conclusions can be made. Lastly, the student has to reflect on ethical issues, limitations, future research and the value of the contributions of the conducted master thesis.

Course	ECTS	Description
Master	30	The master thesis is a research project in which students will apply the knowledge
Thesis		acquired during their studies. It is a crafted scholarly document presenting research
		questions and original arguments based on scientific methods under the guidance of
		an advisor. The thesis gives the student the opportunity to demonstrate expertise in
		their chosen research area. Students will acquire specialized problem-solving skills,
		being able to plan and conduct the steps in the research and/or development process
		at a high methodological standard. They shall take responsibility to conduct a well
		planned and executed project.

Table 5: Master Thesis overview.

## 4. Teaching methods and assessments

## 4.1 Pedagogical platform and teaching methods

The programme uses a number of varied forms of teaching in order to encourage learning:

- Lectures, to introduce theoretical issues and domain knowledge.
- Seminars and group work, to give the students the opportunity to discuss different perspectives, integrate with previous knowledge, and practice analytical assessments with provided case materials.
- Practical assignments including developing IT artefacts through the use of the existing labs and the mHub for industry cases and innovations.
- Directed and student-selected readings, to initiate an interest in a domain of knowledge and to develop solid knowledge base.
- Oral presentations, to develop personal communication skills and promote team-work environments.
- Essay and thesis writing, in order to synthesize knowledge and present analyses and communicate results.
- Supervision, to provide detailed feedback and discussion of students' projects in close interaction with KUC researchers.

### 4.2 Forms of assessment

Regarding assessment forms, the students usually have written home exam during the modules. The objective of these assessment forms is to prepare and train the student for writing the Master's Thesis. In addition, some oral presentations, multiple choice exam, individual written exams are examples of other assessment forms. There is one assessment in each module. Some modules do also have individual or group compulsory assignments. For the Master's Thesis, the assessment consists of: one written essay (The Master's Thesis report) and an oral defense.

## 5. Internationalisation and student exchange

With reference to *Studietilsynsforskriften* of February 2017 (§2-2, sections 7 and 8), the study has arrangements for internationalization and international student exchange.

## 5.1 Internationalization

In this context internationalization is understood as placing the study programme in an international context and that the students are exposed to a multitude of perspectives. All of the reading materials and lectures are given in English, and the study uses both Norwegian and international cases. The students shall write their Master Thesis in English. The program uses international lectures and guest lecturers. Our lectures also conduct research with international co-authors and play an active role in both national and international conferences.

## 5.2 International student exchange

As regards to arrangements for international student exchange, Kristiania University College has the following mobility program:

- Nordplus in the Nordic region or the Baltic States
- ERASMUS + in Europe
- "Study Abroad", for students in and outside Europe

Kristiania University College has agreements on student exchanges and academic relevance secured by the academic field of study. Exchange courses from partners are approved by academic supervisors, for admission to the program, with an equivalent of 30 credits. For nominations for student exchange, requirements are set for grades and motivation applications.

For students at Master of Science in Information Systems: Fintech Business Innovation student exchange is possible during the third semester for the full-time students (fifth semester for the part-time students). For outgoing students, Kristiania University College, has established student exchange agreements with the following institutions:

- Kingston University, UK
- Arcada University of Applied Sciences, Finland
- Seoul National University of Science and Technology, South Korea
- <u>University of Hertfordshire</u>, UK
- <u>Assumption University</u>, Thailand

Changes to approved universities may occur. Information about possible exchange stays for the relevant year is therefore published online and, on the students' learning platform.