# QUALITY POLICY 2022

IT University of Copenhagen

Version 4

2 January, 2022 IT UNIVERSITY OF COPENHAGEN Rued Langgaards Vej 7, DK 2300 S

	Preamble of the Quality Policy
Summary	The Quality Policy defines Quality Standards of the IT University of Copenhagen (ITU). Further, the document names ITU's ( <i>Quality</i> ) <i>Work Processes</i> (e.g., the work processes through which the Quality Standards are monitored); and describes the <i>Alarm Handling Processes</i> , i.e., processes following discovery of breach of quality standards.
Context for the Quality Policy	The Quality Policy is sub-ordinate to ITU's overall strategy and strategic framework contract, which contain development goals agreed with the Ministry. The university reports on all development goals in its Annual Report and the reporting is audited by the university's Auditor and the Auditor General.
	The Quality Policy is approved by Executive Management.
	<ul> <li>At ITU, a study programme is said to be <i>ideal</i>, if</li> <li>1) it attracts a large number of well-qualified students; and</li> <li>2) the academic contents and the teaching meet the highest international standards; and</li> <li>3) the students acquire competences that are in high demand in the labour market.</li> </ul>
	ITU systematically works towards all its study programmes becoming ideal.
	Failure to reach development goals is a challenge that the university must address, but it is not necessarily a sign of poor quality in existing study programmes.
	By contrast, the university has defined a set of <i>quality standards</i> , the breach of which is a sign of quality issues that need to be dealt with in a manner, which has been thought out in advance. That is the quality assurance part of the quality work.
	The Quality Policy has been designed in accordance with the European Standards and Guidelines (ESG) for internal quality assurance within higher education institutions and the guidelines for institutional accreditation by the Danish Accreditation Institution.
Purpose	Ideal study programmes arise not just (or even primarily) through reporting and monitoring but, more importantly, through the day-to-day work that faculty perform with other faculty, external stakeholders, and students.
	To assure and continuously enhance quality, it is necessary to know the current situation, to record the arguments for changes and to ensure that good ideas are tested and, if successful in test, adopted in practice. This requires appropriate organizational structures and coordination of efforts. The purpose of the Quality Policy is to describe the organisation and coordination of efforts

	through which ITU continuously and systematically assures and enhances educational quality.
	The day-to-day users of the Quality Policy include teachers; those with managerial responsibilities for teaching or research at ITU; all student and faculty representatives serving on Subject Area Teams and the Board of Studies; and administrative staff working with education.
Scope of the Quality	The Quality Policy defines ITU's Quality Standards; names ITU's (Quality) Work
Policy	Processes (e.g., the work processes through which the Quality Standards are monitored); and defines the Alarm Handling Processes, i.e., processes following discovery of breach of quality standards. Some alarm handling actions are mandatory (described using words like "must"); other actions (described using words like "may" or "suggest") are recommendations, which may be replaced with other ones which, in the eyes of those responsible for the quality standards, are at least as effective as the ones listed in this document.
	The Quality Policy applies to all Bachelor, MSc, and part-time programmes at ITU. The procedures for starting new study programmes are described in a separate document.
Policy Areas	The Quality Policy has three <i>Quality Policy Areas</i> , corresponding to ITU's definition of what it means for a study programme to be ideal:  1) Recruitment and Admission of Students 2) Teaching and Learning 3) Graduates' Careers
	For each Quality Delies Area we state in the Quality Delies.
	For each Quality Policy Area, we state in the Quality Policy:
	<ul><li>a) Relevant context in which the Quality Policy Area resides.</li><li>b) Definition of the quality standards for that area.</li></ul>
	Every quality standard is either decidable by itself or broken down into sub- ordinate standards, which are decidable; in the latter case, we say that the standard is met, if all the sub-ordinate standards are met.
	For each standard, the Quality Policy states who is responsible for the standard.
Responsibility	The Vice Chancellor is responsible for the Quality Policy; the implementation of the policy takes place through processes anchored in Executive Management.
	The implementation of the policy respects delegations given by law or by delegation from the Vice Chancellor. For example, by law, the Board of Studies is responsible for the quality assurance of individual study programmes, whereas, by delegation from the Vice Chancellor, the Heads of Department are responsible for hiring of faculty.  Throughout the Quality Policy, to be responsible for a quality standard means:  • At regular intervals (which are defined in the Quality Policy), one must find out whether the standard is met or not  • One must record the documentation showing that the standard is met or not at the place indicated in the Quality Policy  • If the standard is not met, one must initiate follow-up actions, as stated in the quality standard.

2022-01-02 3 v4

The Quality Policy lists responsibilities by quality standards rather than by roles. Thus, the definition of a standard within a Quality Policy Area contains the following fields:

- Summary (optional): A brief summary about what the quality standard says.
- Terminology (optional): Introduction of concepts or notation used in this (and perhaps subsequent) quality standards.
- Predicate: a decidable predicate defining when the standard is met.
- Responsible: reference to role or collegial body, which is responsible, in the sense defined in this Preamble.
- (Quality) Work Process: reference to or description of a process which contains the monitoring and follow-up actions of the standard.
- Place of record: where is documentation of the fulfilment or otherwise of standard to be stored.
- Alarm-handling Process: description of process describing corrective steps in cases the standard is *not* met.

### **Primary Quality Data**

Some standards and goals refer to or rely on *Primary Quality Data,* of which there are the following:

- Recruitment and Admission of Students
  - a) Number of applications, number of applicants offered admission, number of admitted students and educational background of admitted students (BSc and MSc study programmes)
- Teaching and Learning
  - b) For BSc and MSc study programmes: drop out after first year, average delay compared to Curriculum Document<sup>1</sup> schedule, and rate of students who complete within scheduled time plus one year
  - c) Research-based teaching (VIP/DVIP-ratio)
  - d) Course Evaluation Results
  - e) Supervision Evaluation Results
- Graduates' Careers
  - f) Gross unemployment rate of MSc graduates 4 to 7 quarters after graduation (study programme, ITU, national average)
  - g) Rolling, weighted average unemployment rate of MSc graduates 4-7 quarters after graduation (study programme, ITU, national average)
  - h) Gross employment rate of BSc and MSc graduates (study programme, ITU)

The definitions of the Primary Quality Data are found in *Appendix A Definitions* of *Primary Quality Data*.

The University Director is responsible for making Primary Quality Data available to all employees who partake in the (Quality) Work Processes in time for when the data is to be used in the process in question. ITU uses QlikSense (ITU's data warehouse) to achieve this.

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<sup>&</sup>lt;sup>1</sup> In this document, "Curriculum Document" is used for what in Danish is called "studieordning". We use the term "curriculum" to refer collectively to all learning objectives and learning activities.

Data provided by the Ministry of Higher Education and Science is used, where available.

Clearly, quality of education cannot be reduced to Primary Quality Data.

Primary Quality Data can show obvious strengths or issues, but the reports of the Quality System consider a broader range of aspects of quality.

### Reports and their Use

### **The Study Programme Report**

At the level of individual study programmes, the key document is the annual *Study Programme Report*, in which the Head of Study Programme, after consulting the Subject Area Team (SAT), reports to the Education Group and Head of Department, cc the Programme-Specific Employers' Panel, following a template. The Study Programme Report contains:

- Primary Quality Data for the study programme for the past three calendar years
- Follow-up on the action plan of the previous period
- Status of goals from the strategic framework contract pertaining to the study programme
- Status of quality standards pertaining to the study programme, including descriptions of follow-up actions initiated by standards that were not met.
- A description of changes made to the study programme as a result of recommendations made by the employers' panel
- A summative analysis of the study programme's strengths and challenges; and
- An action plan for the quality work for the coming period.

The Study Programme Report forms the basis of the recurring *Study Programme Quality Status Meeting* between the Head of Study Programme, the Education Group, and relevant Head of Department.

Cycle time: 1 year.

### **The Education Portfolio Report**

Based on the Study Programme Reports, the Education Group prepares an *Education Portfolio Report* and, when the Board of Studies have made their statement, submits the report to Executive Management. The report describes:

- Strengths and successes of study programmes.
- Opportunities for the university.
- Threats and Weaknesses.
- A tabular summary of the extent to which ITU's study programmes has met the goals and standards (red/green).
- Recommendations to Executive Management concerning the future of study programmes with breaches of quality standards.
- Recommendations to Executive Management concerning how the quality assurance system itself might be improved.
- An action plan for the quality work for the coming period.

The Education Portfolio Report forms the basis of the recurring *Portfolio Quality Status Meeting* between the Education Group and Executive Management.

Cycle time: 1 year.

### **Executive Management follow-up**

The Education Group's action plan and recommendations for the coming period are discussed and decided at the status meeting. The Education Portfolio Report is adjusted accordingly.

Executive Management, Education Group and Heads of Department meet twice during the next year to follow-up on the action plan.

The Education Portfolio Report and its action plan enter Executive Management's plan for the coming period. Executive Management can decide

- To reduce or increase admission numbers.
- To terminate a study programme.
- To initiate the development of a new study programme.
- To make changes to the organisation of the quality system.

The Executive-Level Employers' Panel read and discuss the Education Portfolio Report and question Executive Management about their follow-up actions.

Cycle time: 1 year.

### The Programme-Specific Employers' Panel Report

The Programme-Specific Employers panels each write an annual *Programme-Specific Employers' Panel Report*. The report is used by the Executive-level Employers' Panel; the Heads of Study Programme of the programmes in question; the Dean of Education; the Education Group, the Heads of Department, and the Vice Chancellor. The Programme-Specific Employers' Panel Report is discussed by the Subject Area Team and serves as input to the Study Programme Report.

Cycle time: 1 year.

### The Executive-Level Employers' Panel Report

The Executive-Level Employers panel writes an annual Executive-Level Employers' Panel Report and submits to the ITU Board of Directors through Executive Management, cc the Dean of Education and Heads of Department. The report is discussed at one of the follow-up meetings concerning the Education Portfolio Report. The report is also discussed at a meeting in the Board of Directors. Executive Management is responsible for implementing whatever changes the Board of Directors decide.

Cycle time: 1 year.

### **Programme Review Reports**

ITU organizes regular reviews of its study programmes. Each review involves the formation of an external panel, who produces a *Programme Review Report*, which it submits to the Education Group, Head of Department and Head of Study Programme. The Programme Review Report serves as input to the writing of the Study Programme Report.

Cycle time: 4-5 years (two study programmes are reviewed every year).

### Study Environment Assessment (Danish: "undervisningsmiljøvurdering")

A Study Environment Assessment must be carried out at least every three years. The assessment consists of data collection and analysis and making and implementing an action plan for improvement of the study environment. ITU uses data from the survey on studying & learning, well-being and study environment carried out by the Ministry of Higher Education and Science every other year. Board of Studies and Dean of Education are responsible for making the Action Plan for study environment improvements and assigning responsibility for implementation of the individual action points. The Action Plan and progress on implementation is available on www.itu.dk and ITU Student. Follow-up actions pertaining to the individual study programmes are recorded in the Study Programme Reports and the Education Portfolio Report.

Cycle time: Every other year (2018, 2020, 2021<sup>3</sup>, 2023, ...)

### **Graduate report**

The biennial Graduate Report compiles available data on graduates from BSc and MSc study programmes from the past two years. Data include employment and unemployment data and survey results from the Ministry of Higher Education and Science's biennial graduate survey.

The report is used by Heads of Study Programme in the Study Programme Report. It is also used by Subject Area Teams, Board of Studies, Education Group, Heads of Department and Executive Management as relevant.

Cycle time: Every other year (uneven years)

# (Quality) Work Processes

By (Quality) Work Processes we mean documented work processes which play a role in the quality assurance and quality enhancement work. We put the word Quality in parentheses to emphasise that ITU does not have a separate kind of work process for "quality work" but view quality assurance and development as part of day-to-day work processes.

To support continuous improvement, (Quality) Work Processes are cyclical in nature. Since activities implementing the Quality Policy are embedded in processes which are also cyclical in nature (due to the yearly or half-yearly cycles that permeate all study programmes), (Quality) Work Processes are often described as cyclic processes (Danish: "årshjul").

<sup>&</sup>lt;sup>2</sup> The survey includes four elements: LÆRBAR, Uddannelseszoom, TRIV and DCUM (Danish Centre for Educational Environment), see e.g. www.ug.dk or www.uf.dk for more information.

<sup>&</sup>lt;sup>3</sup> In 2021, execution changes from even to uneven years.

Cyclic improvement processes follow this pattern: collect data; suggest changes; approve changes; and organise changes. The phases are time boxed within the cyclic processes. Some changes take longer than one cycle to implement. That is why there is no time boxed "implement" phase in the cyclic processes. Rather, organising changes may mean implementing changes (if the can be made quickly) or planning larger changes.  The Quality Coordinator maintains the cyclic processes (årshjul) and keeps operators informed on deadlines, etc.  Decision Powers  The Work Processes are designed with the following principles in mind:  1. Responsibility and Decision Powers must be aligned: those who have the responsibility must also have the decision powers needed to meet the responsibility.  2. Decisions must be made as close to the actual teaching as possible. Fo example, a course manager can make changes on a course which have no significant bearing on the intended learning outcomes of the course other course-level changes must be approved at the appropriate level, for example a Subject Area Team or Board of Studies, depending on the scope of the consequences of the change.  3. Collective bodies (including Subject Area Teams, Board of Studies and Employers' Panels) must be involved in matters that, by law or by their terms of reference, they are supposed to discuss or approve. For example,  a. Changes which impact the learning outcomes of a course are approved by the appropriate Subject Area Team.  b. Changes that impact a programme's Intended Learning Objectives are approved by Board of Studies.  c. Changes on a study programme proposed by a Subject Area Team that impact more study programmes are approved by Board of Studies.  d. While the university decides what is taught in its study	
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programmes, the relevant Employers' Panel(s) should be	
consulted on changes to study programmes that may impact	
the employability of graduates.	
e. Executive Management recommends the creation and	
termination of study programmes to the Board of Directors,	
after consulting the Board of Studies, the Education Group and	М
	u,
in the case of termination, the relevant Employers' Panel.	
Revision of Quality Executive Management review the Quality Policy Preamble when the policy is	
Policy updated. In addition, Executive Management can at any time initiate revision of	ot
the Quality Policy or parts thereof and is obliged to consider doing so, if the	
Education Portfolio Report reveals systemic quality issues. The Board of Studie	es
and the Education Group can submit requests for changes to the Quality Policy	
to the Executive Management. All members of staff can suggest changes to the	
Quality Policy by sending their substantiated suggestions to the Quality	
Coordinator.	
The quality standards of the Quality Policy are revised once a year. Executive	
Management formulate study programme-specific goals and standards once a	_

	year. It is the responsibility of the Executive Management to ensure that
	fulfilment of the study programme-specific goals and standards is sufficient for
	the achievement of the institutional goals and standards decided by the Board of Directors.
References	1. ITU Strategy 2022-2025
METELETICES	2. Strategic Framework Contract for ITU 2022-2025
	3. European Standards and Guidelines
	4. The Danish Accreditation Institution: Institutional Accreditation 2.0
	Guidelines
	5. Terms of Reference for Programme-specific Employers' Panels
	6. Terms of Reference for Executive-level Employers' Panel
	7. Concept for Programme Review of ITU Study Programmes
	8. Template for Terms of Reference for Programme Reviews
	9. Role Description for Dean of Education
	10. Role Description for Head of Study Programme
	11. Role Description for Head of Department
	12. The role of the Vice-Chancellor is described in §11 of "Vedtægter for IT-
	Universitetet I København", signed June 20, 2012
	13. Terms of Reference for Education Group
	14. The role of the Board of Studies is described in §15 of "Vedtægter for
	IT-Universitetet I København", signed June 20, 2012
	15. Concept for development of new study programmes at ITU
	16. PP Model (performance point model)
Transparency	This document and number 1-4 of the documents listed under references are
Transparency	public documents, available through the Internet. The remaining documents
	listed above are available through the Intranet, F2 or SAP Files.
	Study Programme Reports, Education Portfolio Reports, Programme Review
	Reports, and reports from the employers' panels produced as a result of the
	actions described by this Quality Policy are public information and can be
	provided upon request.
History	Quality Policy 2022:
Thistory	The 2021 edition of the Quality Policy is based on the 2020 edition. Information
	on graduate dialogue has been adjusted to better reflect practice. The
	threshold score for course and supervision evaluations have been adjusted
	·
	(from 4.75 to 4.50) according to the decisions made by Executive Management
	and Board of Studies in Spring 2021. Development goals from the Strategic
	Framework contract 2018-2021 have been taken out as the contract has
	expired. At the time of approval, the contract for 2022-2025 had not yet been
	negotiated with the Ministry. Thus, the Quality Policy 2022 does not contain
	Development Goals. The numbering of Quality Standards has been changed
	accordingly. Apart from these changes, only minor adjustments of e.g. wording
	has taken place.
	A draft version was discussed in Education Group including Heads of
	Department in November 2021. Executive Management also weighed in during
	November. The Board of Studies were consulted in December 2021 and
	Executive Management approved the policy in December 2021.
1	Quality Policy 2021:
	No. of and act.

The 2021 edition of the Quality Policy is based on the 2020 edition. In the introduction to section 2 on Teaching and Learning, it has been made more visible how ITU works with Student Centered Learning, also concerning exams. In Quality Standard 2.1 the target figures have been taken out, as they are decided during spring. Measures concerning mapping and learning outcomes have been moved from Quality Standard 2.8 to 2.5 to where they fit better. Quality Standard 2.11 on Teacher Development has been aligned with the new ministerial order on classification of academic ranks and titles. There are changes to predicate 1 (assistant professors), and 2 (associate professors) and a new predicate has been added to cover researchers in principal positions. Finally, the title Head of Studies has been replaced with the new title Dean of Education (Uddannelseschef).

A draft version was discussed in Education Group and Board of Studies in November 2020. Executive Management discussed the Quality Policy 2020 in December 2020 and approved it in January 2021.

### **Quality Policy 2020:**

The 2020 edition of the Quality Policy is based on the 2019 edition. The description of the process after the status meeting on the Education Portfolio Report and its action plan has been updated. Quality Standard 2.1 (student evaluations) has been changed due to the implementation of a revised evaluation system for courses and supervision. For Quality Standard 2.7 it has been specified, that only ITU faculty can supervise final projects. For the same quality standard, a third reason for hiring DVIP has been added (strategic considerations). Quality Standard 2.10 (contact and feedback) has been taken out as it has become redundant: All courses are scheduled to ensure the standard of at least 56 lessons to a 7.5 ECTS-points course is always met. Teaching Format Budget and Student Activity is now called Student Activity Budget (Quality Standard 2.10). A new quality standard on employment rates has been added (QS 3.3) as employment is a new measure monitored by the Ministry. BSc study programmes are no longer measured on unemployment rates for the corresponding MSc study Programme (QS 3.2). Apart from these changes, only minor adjustments of e.g. wording has taken place. A draft version was discussed in Education Group in September 2019. Executive Management decided on the Quality Policy 2020 in November 2019.

### **Quality Policy 2019:**

The 2019 edition of the Quality Policy is based on the 2018 edition. Development Goal 1.2 (admitted female students) has seen a change in the number of female students to be admitted in 2019. A new predicate on teaching formats and student activities has been added to Quality Standard 2.11 (constructive alignment). The new standard will be implemented on all study programmes during 2019. Apart from these changes, only minor adjustments of e.g. wording has taken place. A draft version was discussed in Education Group in September 2018. Executive Management then made the changes to Development Goal 1.2 and decided on the Quality Policy 2019 in December 2018.

### **Quality Policy 2018:**

### IT UNIVERSITY OF COPENHAGEN

The 2018 edition of the Quality Policy is based on the 2017 edition. Four new development goals have been introduced. One concerns the share of female students on selected study programmes (1.2). The rest concern ITU scores on selected questions from Uddannelseszoom (2.2 and 3.3). Quality Standard 3.2 has had a third predicate added concerning the rolling weighted average for unemployment measured four to seven quarters after graduation. Quality Standard 1.3 on the relation between unemployment rates and admission on individual study programmes has been removed (the Heads of Study Programme are still asked to reflect on it in their annual report). Due to the changes, a renumbering of all standards and goals has taken place. A draft version of the 2018 edition was discussed in the Education Group, Board of Studies and Executive Management in October 2017. Negotiations with the Ministry on the strategic framework contract were then awaited. The final draft was discussed in the Education Group and Executive Management in March 2018.

### **Quality Policy 2017:**

The 2017 edition of the Quality Policy is based on the 2016 edition. Only minor adjustments have taken place (update of references, changes to wordings etc.). A draft version of the 2017 edition was discussed in the Education Group and Board of Studies in November 2016. The agreed version was then sent to Executive Management for decision. Executive Management, having asked for minor additional changes, decided on the Quality Policy 2017 on 21 March 2017.

### **Development of the Quality Policy 2016:**

Executive Management, the Head of Studies and the Head of Department drafted and edited this document. The document was repeatedly discussed by the Extended Group of Managers (which included the Education Group; the Heads of Section and the four Heads of MSc Study Programmes), before it was sent for hearing among faculty and student representatives in the Subject Area Teams and the Board of Studies and the Board of Directors.

# 1 Recruitment and Admission of Students

Context for the Quality Policy Area (based on ITU strategy and ITU's strategic framework contract)

ITU wants to attract a large number of well-qualified students.

1.1 Quality Standard Number of Students Admitted		
Summary	It is part of ITU's strategy to attract a large number of well-qualified students.	
Predicate	The Study Programme admits at least as many students as assumed in the admission budget. Study Programmes with restricted intake do not admit more students than allowed.	
Responsible	Head of Study Programme	
Place of record	Admission Memo (and Study Programme Report)	
Alarm Handling Process	<ol> <li>Recommendations:         <ol> <li>Investigate whether there are changes in the competitive situation which can explain the insufficient admission.</li> <li>Revisit previous Study Programme Reports to see whether there are unresolved issues that could explain failing admission.</li> <li>Investigate applications and whether changes to the admission process are necessary.</li> </ol> </li> </ol>	

1.2 Quality Standard	
Qualifications of Admitted Students	
Summary	It is part of ITU's strategy to attract a large number of well-qualified students.

1.2.1 Quality Standard		
Well-qualified Students (MSc and Master programmes)		
Predicate	At the time the Head of Study Programme assessed the applicants, (s)he did not	
	recommend admission of any applicant whom, in the opinion of the Head of Study	
	Programme, had weak qualifications.	
Responsible	Head of Study Programme	
Place of	Admission Memo (and Study Programme Report)	
record		
Alarm	1) (Mandatory) Quantify the extent of the phenomenon, preferably with a description	
Handling	of what weaknesses are observed.	
Process	2) (Mandatory) Consider what changes to the admission process would be necessary to eliminate the problem.	
	3) (Mandatory) Consider whether there are aspects of the programme itself that could	
	be changed in order to attract more well-qualified students.	
	<ol> <li>Discuss with the Communications Department whether the marketing of the programme needs to be changed to reach more well-qualified students.</li> </ol>	

# IT UNIVERSITY OF COPENHAGEN

1.2.2 Quality Standard		
Well-qualified	Well-qualified Students (Bachelor programmes)	
Terminology	Under the Danish coordinated application system (KOT), there are two types of	
	applicants. Quota 1 applicants are offered admission based on grades; quota 2 applicants	
	are offered admission based on other criteria as well.	
Predicate	No Quota 1 applicant with a grade point average below 7.0 was offered admission.	
Responsible	Head of Study Programme	
Place of	Admission Memo (and Study Programme Report)	
record		
Alarm	(same as in 1.2.1)	
Handling		
Process		

### 2 Teaching and Learning

Context for the Quality Policy Area (based on ITU Strategy [1] and ITU's strategic framework contract [2])

ITU wants the academic contents and the teaching to meet the highest international standards and be research based. To ensure that the teaching is research based, it is important that faculty (VIP) ensure the academic standards of the teaching, and that students work with and get feedback from research faculty (see 2.4, 2.5). Students are in contact with ITU's research environments when they are taught and supervised by active researchers from ITU.

The ITU understanding of good research is that it is motivated both by a quest for deep insight and by consideration of use. Some faculty are more motivated by a quest for deep insight than consideration of use and some part-time lecturers (DVIP) are more motivated by consideration of use, so it is important for students to work with both faculty and part-time lecturers (see 2.4, 2.5).

The extent of teaching by part-time lecturers on part-time programmes should not differ from the extent of teaching by part-time lecturers on full-time programmes (see 2.4).

### **Legal requirements to Quality**

#### 1. Qualification Framework

The academic level of each programme is at least in correspondence with its Danish Qualification Framework level (see 2.3).

### 2. Research-based Teaching

The teaching is research-based (see 2.4, 2.5).

### 3. Teacher Development Programme

All assistant professors must follow a University Pedagogical Programme (Danish: "Universitets-pædagogikum")<sup>4</sup>

### ITU's Additional Policy Statements

### **Research-Based Teaching**

By an *active researcher* (VIP) we understand a member of ITU faculty, a person who currently conducts research at ITU. Post docs and Ph.D. students are included.

At all times, at least two faculty members must be qualified to teach a mandatory course for it to be considered robust (in rare cases, exceptions can be made for strategic reasons, see item 2 below) (see 2.6).

ITU uses a numeric indicator, the VIP/DVIP ratio, to measure the ratio of student learning activities that had researchers as responsible over the number of student learning activities that had part-time lecturers as responsible. ITU has a quality standard for the VIP/DVIP ratio, which applies to all study programmes (see 2.4).

Concerning teaching on courses, it is the policy of ITU that

- Curriculum development responsibility lays with active researchers employed at ITU. Part-time
  lecturers who are course managers collaborate with active researchers employed at ITU (Course
  Academic Responsible) on course design; including planning of intended learning outcomes;
  learning activities and exam form.
- 2. The employment of DVIP for teaching on courses must have one of the following three purposes:

<sup>&</sup>lt;sup>4</sup> Cirkulære om stillingsstruktur for videnskabeligt personale ved universiteter

- a. To bring an industry perspective and/or practical expertise to courses where it is
- b. To ensure stability of study programmes. In cases where researchers become unavailable for planned teaching with short notice before a semester starts, DVIP can be stand-ins.
- c. To serve as a strategic measure:
  - i. DVIP is an active researcher at another university and provides research-based teaching within an area where ITU is less/has chosen not to be as strong
  - ii. DVIP teach a course aimed at basic skills on the study programme (e.g. math)
  - iii. DVIP supplements teaching on courses that are robust (two faculty can teach it) when faculty cannot cover all teaching.

Concerning supervision of MSc theses BSc projects and Master final projects, it is the policy of ITU that

- 3. Every final project and thesis are supervised by an active researcher from ITU.
- 4. The supervisor must supervise and help the student reach the appropriate academic level and provide necessary support for the thesis/project to meet academic standards.
- 5. On professional master and BSc programmes, the supervisor should allocate at least 15 hours for supervision per project. On MSc programmes, the supervisor should allocate at least 30 hours for supervision per project. The number of hours is an average, including administration and examination.
- 6. It is possible to split the supervisor task among several active researchers, for example in case of interdisciplinary projects, but there must always be exactly one main supervisor.
- 7. In rare cases, the supervisor may not be an active researcher from ITU. The Head of Study Programme must recommend the exemption in writing to the Dean of Education, who approve or reject the exemption in writing and store the approval in the records of Student Affairs and Programmes.

Finally, ITU has a model for how much faculty should teach, the so-called 2019 PP Model. For example, an associate professor with no teaching deductions must deliver 867 ECTS points each year.

### Part-time Lecturers (DVIP)

Part-time Lecturers should be highly regarded professionals whose professional experience can benefit the students greatly. Part-time Lecturers should not be recruited as a means of covering prolonged shortage in staffing by active researchers unless for strategic reasons agreed to by Executive Management (see 2.5).

#### Student-centered Learning (SCL) and Constructive Alignment

SCL is integrated in ITU's pedagogical principles. The pedagogical principles constitute the framework for – and highly influence – all competence development of teachers. The principles systematically reflect all aspects of student-centered learning.

The implementation and continuous systematic work with constructive alignment, constitute our approach and well-established implementation of SCL. All planning and implementation of teaching and exams at ITU is based on John Biggs' principles of Constructive Alignment. The overall and most important principle is that descriptions and implementation of intended learning outcome (ILO), teaching and learning activities and exam forms must be aligned. Students are to be made aware of this correlation so that they may achieve the best possible progression and results.

Monitoring and quality assuring SCL is linked to several of the Quality Standards in Section 2. E.g., student evaluations of teaching and supervision.

### **Student Involvement**

Students participate in the (quality) work processes in the following ways:

- By providing input to and participating actively in course and supervision evaluations as well as Study Environment Assessments and other evaluations concerning student life, teaching & learning and exams.
- By providing input to Programme Reviews, and, when they have graduated, to data concerning graduates.
- As members of Subject Area Teams and Board of Studies, which approve changes to study programmes originating from student evaluations, Employers' Panels, Quality Status Meetings, or other sources, and decide the course portfolio.
- As members of the ITU Board of Directors, students participate in discussing the Executive Employers' Panels' report and supervising Executive Management concerning follow-up; the approval of the University's budget; and in deciding the creation of new or termination of existing study programmes.

### **Qualification Framework (Programme Learning Outcomes)**

Courses must be designed to fit the rest of the study programme. Changes to a course must not bring the study programme out of alignment with the learning objectives of the entire study programme (see 2.3), as described in the Curriculum Document, nor must it restrict the number of persons who can teach any mandatory course to just one active researcher (see 2.6).

### **Diversity in Educational Background of Student Population on MSc Programmes**

ITU's MSc programmes attract students from a variety of bachelor programmes. ITU has the following practice:

- 1. The university must maintain a mapping of the learning objectives described in the Curriculum Document to the Qualification Framework, to ensure that, for all admission tracks or specialisations, the level is MSc level (see 2.3)
- 2. Admission procedures must ensure that admitted students have the skills required to start the programme (see 1.2)
- 3. In first semester activities with students of diverse backgrounds, the university must ensure that the teachers are aware of and have the right knowledge and didactic tools to address the diversity (see 2.2)
- 4. Systematic follow-up is performed on how the diversity of backgrounds influence graduate delay (see 2.2).

2.1 Quality Standard		
Student Evaluati	Student Evaluation of Courses; Projects and Final Projects	
Terminology	Students at IT University of Copenhagen participate in two different internal evaluations: Course evaluations and Supervision evaluations (final and other projects). The evaluations include a few quantitative questions centered on learning outcomes. An average score is calculated for each course, teacher/supervisor, study programme and ITU.  In the predicates below, 'average' means 'average for the entire calendar year'.	
Predicate	<ol> <li>The average score of the student answers to the course evaluation survey is greater than or equal to 4.5 (on a scale from 1 to 6) on all programmes and at ITU level.</li> <li>The average score of the student answers to supervision evaluation is greater than or equal to 4.5 (on a scale from 1 to 6) on all programmes and at ITU level.</li> </ol>	
Responsible	Head of Study Programme	

Place of record	Study Programme Report and (quality) work processes for each of the evaluations for
	follow up on all data collected
Alarm Handling	Recommendations (if a score falls below the target)
Process	1. Identify where the issues are located, e.g. single course, single teacher/supervisor,
	single cohort, or prevalent across the programme.
	2. Identify whether the issue lies in structural issues or in the teaching/supervision.
	3. Develop an action plan for how to handle issues. The Course Manager or the
	Subject Area Team follows up on all issues not concerning personnel management.
	The relevant Head of Department follows up on issues concerning personnel
	management.

2.2 Quality Standard		
Diversity of Stu	Diversity of Students on MSc Programmes (educational background)	
Terminology	To enable measurements and follow-up on diversity, we distinguish between the	
	following educational backgrounds:	
	- ITU (a BSc from ITU)	
	Danish University (not a BSc from ITU, not a Danish Professional Bachelor's degree)	
	<ul> <li>Foreign University</li> </ul>	
	Danish Professional Bachelor's degree	
	Others (including some degrees under the Ministry of Culture and educations within	
	the police and armed forces)	
	Unknown (degrees that fall outside the other categories)	
Predicate 1	None of the categories differ significantly from the study programme average	
	concerning progress (PQD = average graduate delay).	
Predicate 2	Twice a year, a Semester Workshop is held for the teachers on each study programme.	
	The workshop addresses coordination and pedagogics as well as diversity and	
	background of new cohorts and, for MSc programmes, is attended by both the Head of	
	the MSc programme and the Head of the associated BSc programme.	
Responsible	Head of Study Programme	
Place of	1. (ad Predicate 1) Study Programme Report	
record	2. (ad Predicate 2) Minutes from semester workshops	
Alarm	1. (ad Predicate 1) Problems must be analysed and a proposal must be developed to	
Handling	remedy either the curriculum or the admission procedure (mandatory)	
Process	2. (ad Predicate 2) The Education Group oversees that the relevant Head of Study Programme carries out the workshops (mandatory).	

2.3 Quality Standard		
Qualification F	Qualification Framework and Progression	
Summary	The university must ensure that all its study programmes meet the requirements of the	
	Danish Qualification Framework.	
Terminology	The Qualification Framework has different requirements for different levels of study programmes (BSc, MSc, and Master). A <i>Qualification Framework Mapping</i> shows the relationship between the paths of study activities through the study programme permitted by the Curriculum Document and the level-specific Qualification Framework requirements of the study programme. For study programmes with no specialisations and only one admission track (typically BSc programmes), a Qualification Framework Mapping consists of two maps, namely	

	<del>,</del>
	<ol> <li>a map of the objectives for learning output (as described in the Curriculum Document) against the Qualification Framework requirements of the level of the study programme; and</li> <li>a map of the objectives for the learning output of the programme against the non-elective study activities of the study programme, each course activity listed with the relevant part of its intended learning outcomes.</li> <li>For MSc study programmes with more than one admission track and more than one specialisation, the Qualification Framework Mapping considers every path of non-elective study activities from admission to a specialisation permitted by the Curriculum Document.</li> <li>Every change of a course (or introduction of a new course) is checked for consistency with the overall structure and objectives for learning output of the study programme, as defined in the Curriculum Document.</li> <li>The relevant Subject Area Team decides changes to courses and the course portfolio.</li> <li>The Subject Area Team must document why it considers the change to be consistent with the overall structure and objectives for learning output, as defined in the Curriculum Document (or else raise an alarm). Changes to the Curriculum Document are decided by Board of Studies.</li> </ol>
Predicate	<ol> <li>For every study programme, there exists an updated Qualification Framework         Mapping, and</li> <li>For every study programme and for every path through the study programme which         the Curriculum Document permits, the Qualification Framework Mapping shows</li> </ol>
	that  a. The objectives for learning output which the Curriculum Document associates with that path cover the (Danish) Qualification Framework requirements; and  b. The intended learning outcomes of the study activities that constitute the path cover the objectives for learning output that the Curriculum Document associates with that path.
Responsible	Head of Study Programme
Place of record	Qualification Framework Mapping documents, which are stored in SAP Files.
Alarm Handling Process	Mandatory: The Subject Area Team must change the study programme to eliminate the shortcoming.

2.4 Quality Standard			
Balance betwe	Balance between VIP and DVIP in teaching		
Summary	ITU monitors the ratio of teaching carried out by researchers (VIP) to teaching carried out by part-time lecturers (DVIP) making sure at least 75 % of the teaching is delivered by ITU researchers, while up to 25 % of the teaching should be delivered by part-time lecturers.		

Terminology	Let S be a set of study activities on a programme in a given period. For each study activity s in S, let $s_e$ be the ECTS point size of the activity. Further, let $s_v$ be the percentage of s taught by VIP and similarly, let $s_d$ be the percentage of the activity taught by DVIP (note that $s_v + s_d = 100\%$ ). Finally, let $s_n$ be the number of student registered on the activity. We then define the VIP/DVIP ratio for the programme in that period relative to S as follows:
	$VIP/DVIP \ ratio(S) = \sum_{s \text{ in } S} (s_e \mathbf{x} s_v \mathbf{x} s_n) / \sum_{s \text{ in } S} (s_e \mathbf{x} s_d \mathbf{x} s_n)$
	that is, the total volume of student activities taught or supervised by active researchers divided by the total volume of student activities taught or supervised by DVIP.
Predicate	At ITU-level the VIP/DVIP ratio is at least 3.00. Each study programme must have a VIP/DVIP-ratio of at least 2.4 (80 % of the ITU standard).
Responsible	Heads of Department (the rolling four-semester planning of course staffing and the Long-Term Hiring Plan are key to meeting the predicate)
Place of record	Study Programme Report
Alarm	Mandatory:
Handling	Alarms must be recorded in the Study Programme Report. After every semester, the
Process	Heads of Department and Dean of Education discuss the staffing of study programmes
	that are in breach of the quality standard and produce a plan for how to prevent the issues from arising again.

2.5 Quality S	2.5 Quality Standard		
Research-based Course Design and Supervision			
Predicate	1.	Every part-time lecturer who holds the role of course manager is associated with an active researcher employed at ITU (Course Academic Responsible, CAR), who can assist the part-time lecturer with course design; including planning of intended learning outcomes; learning activities and exam form (cf. item 1 listed under the Policy Statements concerning Research-Based Teaching); AND	
	2.	For every employment of a part-time lecturer as course manager, there exists a documented reason for this allocation of role which adheres to item 2 listed under Policy Statements concerning Research-Based Teaching; AND	
	3.	Every final project and thesis are supervised by an active researcher from ITU, but for certain rare cases (exemptions must be approved by the Dean of Education). This applies to Master, BSc and MSc-level.	
Responsible	1.	Heads of Department are responsible for appointing an active researcher (CAR) for each course which has a part-time lecturer as course manager; AND	
	2.		
	3.	Heads of Study Programme are responsible for checking that lists of supervisors whom the students can choose between contains active researchers from ITU only. The student project registration system distinguishes between whether a person is approved to supervise at BSc, Master or MSc level. Moreover, as part of the process of project agreement approval, Student Affairs and Programmes manually check whether proposed supervisors are already approved to supervise projects at the level in question and present proposals for changing the supervision rights of teachers for the approval of the Head of Study Programme.	

Place of	1. Head of Department's updated overview, breaches are recorded in the Study	
record	Programme Report and Education Portfolio Report	
	2. Comments in the updated overview, breaches are recorded in the Study Programme	
	Report and Education Portfolio Report	
	3. Breaches are recorded in the Study Programme Report and Education Portfolio	
	Report.	
Alarm	Mandatory:	
Handling	To ensure feedback into the hiring system, and to allow follow-up on the research base	
Process	of our programmes, all deviations from the predicate must be logged in the Study	
	Programme Report and Education Portfolio Report. The Heads of Department are	
	responsible for finding better solutions for the following semesters as well as taking the	
	feedback into the hiring system.	

2.6 Quality Standard	
Research base	
Terminology	The Heads of Department maintain an updated overview of who among faculty can teach a given course.
Predicate	1. Every course and part of a course (first-coming semester) which is mandatory for some students can be taught by at least two VIP.  a. In rare cases, exceptions can be made for strategic reasons, see item 2 listed under Policy Statements concerning Research-Based Teaching.
Responsible	Heads of Department and Dean of Education
Place of	The Course Staffing Map. Breaches are recorded in the Study Programme Report and
record	Education Portfolio Report.
	Twice a year (January and September), when the course staffing map is locked for
	changes concerning the first-coming semester, Heads of Department and Head of Study
	Programme check whether the predicate is met for the first-coming semester.
	They inform the Course Staffing Coordinator, who marks courses where the predicate is not met in the Course Staffing Map. Once a year, the Course Staffing Coordinator sends
	a list of the courses (concerning one calendar year) to the Quality Coordinator to be
	recorded in the next Education Portfolio Report and Study Programme Report. Staffing issues are handled via the Long-term hiring plan.
Alarm	Mandatory: Either a co-teacher from faculty must be assigned to the course to eliminate
Handling	the weakness, a part-time lecturer hired (short-term solution) or the course portfolio
Process	changed.

2.7 Quality S	2.7 Quality Standard	
Completion Ra	tes for BSc and MSc students	
Terminology	Completion of bachelor and MSc studies within scheduled time plus one year is defined	
	in the statistical framework ("statistisk beredskab") of Universities Denmark, indicator G.	
Predicate	<ol> <li>Completion within scheduled time plus one year is at least 70 % at ITU-level for students on full-time programmes.</li> <li>Completion within scheduled time plus one year is at least 70 % on every full-time programme.</li> </ol>	
Responsible	1. Dean of Education	
	2. Head of Study Programme	

Place of	1.	Education Portfolio Report
record	2.	Study Programme Report
Alarm	1.	Follow up on the action plans of Heads of Study Programme (see 2c below) and
Handling		document findings in the Education Portfolio Report. (Mandatory)
Process	2.	Mandatory: Individual programme:
		a. Identify where the issues are located, e.g. single course, single cohort, or
		prevalent across the programme.
		b. Identify whether the issue lies in learning objectives or in the teaching.
		c. Develop an action plan for how to handle issues. The Subject Area Team
		follows up on issues concerning contents. The relevant Head of Department
		follows up on issues concerning personnel management.

2.8 Quality S	2.8 Quality Standard		
Constructive A	Constructive Alignment		
Summary	All courses are designed according to the principles of Constructive Alignment (see		
	Teaching Guide on the intranet).		
Predicate	Course descriptions have been approved by Learning Support. Learning Support have checked and approved the following:		
	1. Intended Learning Outcome (ILO) description adhere to the SOLO taxonomy		
	ILOs, planned Learning Activities and Exam Forms are aligned and described in sufficient detail		
	3. Student Activity budget has been selected and aligned to ILOs.		
Responsible	Learning Support		
Place of	Study Programme Report and Learning Support's records.		
record			
	Before the beginning of each semester, Learning Support check all course descriptions		
	(for new courses and courses that have been changed). In cases where:		
	<ul> <li>the ILOs are not consistent with the SOLO taxonomy, or</li> </ul>		
	<ul> <li>ILOs, Teaching and Learning Activities, Exam Forms and ECTS-credits are not in alignment, or</li> </ul>		
	<ul> <li>the student activity budget is not presented, or</li> </ul>		
	<ul> <li>the course description is not sufficiently detailed,</li> </ul>		
	Learning Support correspond or meet with the Course Manager, who then modifies the		
	course description for the approval of Learning Support. If Learning Support cannot		
	approve a course description, they inform the relevant Head of Study Programme in		
	writing.		
Alarm	Mandatory: Cases of unapproved course descriptions are recorded in the Study		
Handling	Programme Report, for the consideration of the Education Group. The Head of Study		
Process	Programme, in cooperation with the Course Manager and Learning support, makes sure		
	breaches of the predicates are rectified before the course is offered again.		

2.9 Quality Standard		
Teacher Competence Development Programme		
Summary	All teachers take part in the Teacher Development Programme.	
Terminology	The University Pedagogical Programme is mandatory for all assistant professors at ITU.	
	Part of the programme – the one-day Exam Seminar on qualitative aspects of exams and	
	exam regulations – is mandatory for all new teachers (including part-time lecturers) at	

	ITU. The Introductory Teacher Development Programme for PhDs is mandatory for all
	PhD students. The Introduction to Teaching day is mandatory for all new teachers.
Predicate	As of 31 December (of the year which the next Study Programme Reports and Education
	Portfolio Report cover),
	1. All assistant professors whose contract terminated during the year, have
	completed the University Pedagogical Programme (Danish: "universitetspæda-
	gogikum") no later than four months before the termination of the contract,
	unless they had documented an already completed a similar programme; and
	2. All associate professors hired during the year have completed the Teacher
	Development Programme (or started it with a commitment to finish within 20
	months of their employment at ITU), unless they can document to have already
	completed a similar programme; and
	3. All teachers have completed the Exam Seminar before the exams the first
	semester they teach, unless they are exempted by the relevant Head of
	Department; and
	4. All PhD students have completed the Introductory Teacher Development
	Programme for PhDs the first semester they teach, unless they can document to
	have completed a similar programme elsewhere or are exempted by the relevant
	Head of Department; and  5. All teachers have completed the Introduction to Teaching day during their first
	year of employment at ITU unless they are exempted by the relevant Head of
	Department.
Responsible	Heads of Department
Place of	Competence Development Plan (F2 case maintained by Learning Support, containing
record	work documents concerning items $1-5$ ).
	,
	Every semester, Learning Support identify assistant professors, associate professors,
	teachers, and PhD students who have not completed the required Teacher Development
	Programme activity and informs the relevant personnel managers and the Dean of
	Education. Breaches must be recorded by study programme and department.
Alarm	Mandatory: In case assistant professors, associate professors, Ph.D. students and other
Handling	kinds of teachers hired during the year are in breach of (one or more of) the above
Process	predicates, Learning Support record the breach of the quality standard in the Teacher
	Development Programme Plan and pass on to the relevant Head of Department the task
	to investigate the case and take measures to get the teacher through the required
	development activities. In case new teachers fail to complete the Introduction to
	Teaching day, Personnel record the breach of the quality standard and informs Learning
	Support, who records the breach in the Teacher Development Programme Plan and pass
	on to the relevant Head of Department the task to investigate the case and take
	measures to get the teacher through the required development activities.

2.10 Quality Standard	
Drop Out (Bac	helor and MSc)
Terminology	The dropout rate is defined as the rate of the admitted students (counted after early drop-out) who dropped out within the first 12 months of their studies. Dropout rates are calculated at both ITU-level and by study programme.
Predicate	<ol> <li>The drop-out rate of BSc students is at most 20 %</li> <li>The drop-out rate of MSc students is at most 20 %</li> </ol>

# IT UNIVERSITY OF COPENHAGEN

	3. The dropout rate at ITU-level is at most 20 %	
Responsible	1. Heads of Study Programme (Bachelor programmes)	
	2. Heads of Study Programme (MSc programmes)	
Place of	Study Programme Report	
record		
Alarm	Mandatory: Whenever a study programme breaches the standard, Student Affairs and	
Handling	Programmes contacts all students who dropped out of the programme and asks them	
Process	why they dropped out. Student Affairs and Programmes informs the Education Group	
	and the Head of Study Programme of the result, upon which the Education Group	
	decides the further follow-up actions.	

### 3 Relevance and Employability

Context for the Quality Policy Area (based on ITU Strategy)

### From ITU's Strategy:

• ITU wants its programmes to give its students competences that are in high demand in the labour market.

### **Graduate unemployment rates**

For each of ITU's MSc study programmes, it is the case that the rolling weighted average for unemployment for the past three calculated years, measured four to seven months after graduation, is lower than or equal to the rolling weighted national average for unemployment for the past three calculated years, measured four to seven months after graduation from an MSc programme.

### **Relevance (Employability Profile)**

All study programmes must have an Employability Profile which is approved and evaluated annually by the relevant Programme-Specific Employers' Panel.

3.1 Quality Standard		
Design for Employability (BSc, MSc, and Master)		
Terminology	An <i>employability profile</i> for a study programme lists specific and generic skills for graduates from the study programme based on five areas of generic competencies in demand across industries.	
Predicate	For every study programme, there exists an Employability Profile, approved by the relevant Programme-Specific Employers' Panel no more than two years ago.	
Responsible	Head of Study Programme	
Place of	The Employability Profile is stored in the archive of the Employers' Panel. The approval	
record	(or rejection) is recorded in the annual report from the Employers' Panel.	
Alarm	Mandatory:	
Handling	1) If the Employability Profile does not exist, the Head of Study Programme is	
Process	responsible for developing one; similarly, if the profile is no longer up to date, the Head of Study Programme is responsible for updating it.	
	2) If an Employability Profile exists but has not been approved by the Programme- Specific Employers' Panel, the Head of Study Programme is responsible for negotiating any changes with the Employers' Panel and presenting the profile for the approval of the Employers' Panel within six months.	

3.2 Quality Standard		
Employability – unemployment rate (MSc)		
Terminology	ITU wants its study programmes to give their students competences that are in high demand in the labour market. Consequently, unemployment rates are followed closely and compared to the national average. Below, the term unemployment rate refers to the average unemployment rate four to seven quarters after graduation. The Ministry for Higher Education and Science calculate unemployment rates for every master study programme offered by some Danish university. It also calculates the average	

	unemployment rate (four to seven quarters after graduation) of all who graduated with some degree from some Danish university. The latter we refer to as the national university graduate unemployment rate.	
Predicate	<ol> <li>ITU: The overall unemployment rate for MSc programmes does not exceed the national university graduate unemployment rate.</li> <li>MSc: The study programme's unemployment rate does not exceed the national university graduate unemployment rate.</li> <li>MSc: The study programme's rolling weighted average for unemployment measured four to seven quarters after graduation is lower than or equal to the rolling weighted national average for unemployment measured four to seven quarters after graduation from an MSc programme (see Appendix).</li> </ol>	
Responsible	Head of Study Programme	
Place of record	Study Programme Report	
Alarm Handling Process	Mandatory: The procedure is to examine whether the Study Programme has become misaligned with the labour market.  1. Put the issue on the agenda for the next Employers' Panel meeting for this programme, to ensure that the employability profile is still valid and that the job market for the graduates in question is not too small to justify the number of students admitted.  In addition, some of the following action can be taken (recommendations): A. Conduct a focus group interview with a handful of new alumnae B. Draw a deeper statistic splitting the unemployment on the bachelor background of graduates C. Study the latest graduate report paying attention to issues that might be related to unemployment D. Conduct focus group interview with relevant part-time lecturers within the programme E. Raise the issue at a student meeting to get student input to the issue.  The analysis, findings, and a possible action plan are submitted to the Education Group in the next Study Programme Report. The report must address the alignment of the Study Programme to the labour market.	
	In case of repeated failure, it is suggested to do some of the following:  a) Perform a graduate survey to uncover details of the issue  b) In collaboration with faculty, management, the Programme-Specific Employers' Panel, and the Executive-Level Employers' Panel, to review whether the study programme needs to be changed to increase the segment of the job market it addresses.  c) Conduct a focus group interview with the unions mostly representing the unemployed graduates.	
	An analysis, findings and a possible action plan must be submitted to the Education Group in the next Study Programme Report. In the report, it must be addressed whether there is a need for downsizing the program, or for major changes to the Study Programme (major for example being the need for new research areas to cover new elements of the study programme).	

2021-01-02 25 v4

2.2 Quality S	tandard	
3.3 Quality Standard Employability – employment rate (BSc and MSc)		
Terminology	ITU wants its study programmes to give their students competences that are in high demand in the labour market. Consequently, employment rates are followed closely. The Ministry for Higher Education and Science calculate employment rates for every study programme offered by some Danish university. It also sets a standard for the individual university: Dimittendernes beskæftigelse (opgjort i 1223. måned), skal mindst være på niveau med den generelle beskæftigelse for befolkningen i den erhvervsaktive alder. For 2020 the employment rate for ITU graduates must be at least 94,9 %.	
Predicate	<ol> <li>ITU: The overall employment rate for MSc programmes does not fall below the overall national employment rate.</li> <li>MSc: The study programme's employment rate does not fall below the overall national employment rate.</li> <li>BSc: The study programme's employment rate does not fall below the overall national employment rate.</li> </ol>	
Responsible	Head of Study Programme	
Place of record	Study Programme Report	
Alarm Handling Process	Same as Quality Standard 3.2	

3.4 Quality S	tandard		
Interaction with Employers' Panels (BSc, MSc and Master)			
Terminology	ITU has a number of Programme-Specific and one Executive-Level Employers' Panel.		
	Together they cover all the study programmes (BSc, MSc, and master programmes).		
Predicate	1. ITU follows up on the recommendations of the Employers' Panels; AND		
	2. The Employers' Panels find that ITU follows up on their recommendations		
Responsible	1. Head of Study Programme (for Programme-Specific Employers' Panels) and Dean of		
	Education (for Executive-Level Employers' Panel)		
	2. Chairpersons of the Employers' Panels		
Place of	Study Programme Report and Education Portfolio Report, respectively		
record	2. Programme-Specific Employers' Panel Reports from the Executive-Level Employers'		
	Panel Reports, respectively.		
Alarm	Mandatory:		
Handling	a) If the breach is in a Programme-Specific Employers' Panel: The Head of Study		
Process	Programme develops an action plan for the approval of the Dean of Education.		
	b) If the breach is in the Executive-Level Employers' Panel: The Vice Chancellor		
	develops an action plan for the approval of the chairman of the Board of Directors.		

3.5 Quality Standard		
Global Competence Profile (MSc and BSc)		
Predicate	The Global Competence Profile and related activities of the BSc and MSc programmes	
	are evaluated and updated each year. Planned actions are part of the Action Plan in the	
	Study Programme Report.	

Responsible	Head of Study Programme
Place of	Study Programme Report. The approval by the Dean of Education of the action plan is
record	part of the Education Group's approval process for the Study Programme Report.
Alarm	Recommendation:
Handling	If the Dean of Education cannot approve the action plan or the follow-up on previous
Process	plans, the Head of Study Programme appears before the Education Group with a revised
	plan.

Approval and	The Quality Policy was approved by Executive Management on 2 January 2022
Signatures	
	Jens Christian Godskesen Acting Vice Chancellor  Georg Dam Steffensen University Director

Appendix: Definitions of Primary Quality Data		
Name	Definition	Notes
Educational background	A classification of the institution which granted the degree based on which the MSc applicant seeks admission:  1. ITU 2. Other Danish University 3. Foreign University 4. Danish Professional Bachelor's degree 5. Other 6. Unknown Professional bachelor's degree from a Danish university is counted under item 4.	
Number of applications, year <i>N</i>	Number of applicants for start on Sep. 1 <sup>st</sup> year <i>N</i>	Appears as Primary Quality Data in reports produced year N+1. Calculated by Analysis Unit.
Number of applicants offered admission, year N	Number of applicants offered admission for start on Sep. 1 <sup>st</sup> year <i>N</i>	Appears as Primary Quality Data in reports produced year N+1. Calculated by Analysis Unit.
Number of students admitted after early dropout, year N	Number of students admitted after early dropout, enrolled as of Sep. 1 <sup>st</sup> year <i>N</i>	Appears as Primary Quality Data in reports produced year N+1. Calculated by Analysis Unit.

year, year N	(Number of students who were admitted on Feb 1 <sup>st</sup> , year <i>N</i> -1, were still enrolled on March 1 <sup>st</sup> year <i>N</i> -1 but were not still enrolled on March 1 <sup>st</sup> year <i>N</i> ) + (Number of students who were admitted	Appears as Primary Quality Data in reports produced year N+1. Calculated by Analysis Unit. The definition is taken from Universities Denmark, who use the
	on Sept. 1 <sup>st,</sup> year <i>N</i> -1, were still enrolled	concept in their benchmarking of
	on Oct 1 <sup>st</sup> year <i>N</i> -1 but were not still enrolled on Oct 1 <sup>st</sup> year <i>N</i> )	the universities (Danish: "statistisk beredskab").
Average graduate	Average study time minus curriculum	Appears as Primary Quality Data in
delay, compared to	scheduled study time for those who	reports produced year N+1.
	graduated between Oct 1st year N-1 and	Calculated by Analysis Unit
	Sep 30 <sup>th</sup> year <i>N</i>	
-	Bachelor Programmes	Appears as Primary Quality Data in
	The base population for year N consists of	reports produced year N+1.
, , , , , , , , , , , , , , , , , , , ,	the students who were enrolled Sep 1 <sup>st</sup>	Calculated by Analysis Unit
	year N-4 and were still enrolled on Oct 1st	
	year N-4. The completion rate within	The definition is taken from
	schedule plus one year, year N, is the	Universities Denmark, who use the
	ratio of the base population for year <i>N</i>	concept in their benchmarking of
	that has passed a bachelor's degree from	the universities (Danish: "statistisk
	ITU when measured on Oct 1 <sup>st</sup> year <i>N</i> .	beredskab").
	<b>MSc Programmes</b> The base population for year N consists of	
	the students who were enrolled on Feb	
	1 <sup>st</sup> year <i>N</i> -3 or Sep 1 <sup>st</sup> year <i>N</i> -3 and were	
	still enrolled on Oct 1 <sup>st</sup> year <i>N</i> -3. The	
	completion rate within schedule plus one	
	year, year N, is the ratio of the base	
	population for year <i>N</i> that has passed	
	some cand.it. degree from ITU when	
	measured 3 years and one month (i.e., 1st	
	March or 1 <sup>st</sup> October, year <i>N</i> ) after their	
	admission.	
	"VIP" (Danish: "videnskabeligt personale")	stands for active researchers while
	DVIP (Danish: "deltidsansat videnskabeligt	
	do not have research obligations, including	part-time lecturers.
	Let S be a set of study activities on a progra	mme in a given period. For each
	study activity s in S, let $s_{\text{\tiny e}}$ be the ECTS point	size of the activity. Further, let $s_{\nu}$ be
	the percentage of s taught by VIP and similar	
	activity taught by DVIP (note that $s_v + s_d = 10$	•
	student registered on the activity. We then	
	programme in that period relative to S as fo	ollows:
	VIP/DVIP ratio(S) = $\sum_{s \text{ in S}} (s_e \mathbf{x} s_v \mathbf{x} s_n)$	$\int \sum_{s \text{ in S}} (S_e \mathbf{x} S_d \mathbf{x} S_n)$
	that is, the total volume of student activitie	s taught or supervised by active
	researchers divided by the total volume of s	
	supervised by DVIP.	0
	•	

	TI 1/10/01/10 11 1 1 1 1		
	The VIP/DVIP ratio in year N is calculated by the Analysis Unit and occurs in		
	reports that are produced in year N+1.		
Average score, survey	IT University of Copenhagen has in	The Analysis Unit calculates the	
questions, course	its course evaluation a number of	averages for each teacher and study	
evaluation, in year N	quantitative questions concerning	programme and for ITU as a whole,	
	learning outcome.	based on data in the evaluation system.	
	The questions are scored on a scale	The averages for evaluations conducted	
	from 1 to 6, 6 being the highest	in year N appear as Primary Quality	
	score.	Data in reports produced in year N+1.	
Average score, survey	IT University of Copenhagen has in	The Analysis Unit calculates the average	
questions, evaluation	its evaluation of theses/final projects	score for each course, supervisor, and	
of theses/final	and other projects a number of	study programme and for ITU as a	
projects and other	quantitative questions.	whole.	
projects in year N	The questions are scored on a scale	The averages for evaluations conducted	
	from 1 to 6, 6 being the highest	in year N appear as Primary Quality	
	score.	Data in reports produced in year N+1.	
Numbers of	Number of students who graduated	Calculated by the Analysis Unit for each	
graduates, year N	between Oct. 1 <sup>st</sup> year <i>N</i> -1 and Sept.	study programme and ITU as a whole.	
	30 <sup>th</sup> year <i>N</i> .	Appears as Primary Quality Data in	
	·	reports produced year N+1.	
Unemployment rate	Unemployment rate is measured as	The definition is taken from the	
during the second	the proportion of hours a person is	Ministry for Higher Education and	
year after graduation	unemployed in a quarter with a	Science, who in year N compute the	
in year N (per cent)	normal expected working period of	unemployment rate during the second	
	37 hours per week. An unemploy-	year after graduation in year N-3.	
	ment rate of 0.010 is equivalent to		
	10 per cent of the graduates have		
	been unemployed in a quarter.		
	Unemployment rate second year		
	after graduation in year N is the		
	average unemployment rate four to		
	seven quarters after graduation,		
	among students who graduated		
	between Oct. 1 <sup>st</sup> year N-1 and Sept.		
	30 <sup>th</sup> year N.		
Rolling weighted	•	f graduates from all Danish split master's	
average	degree programmes in year $i$ , and let $L_i$ be the share who, measured after four		
unemployment rate	to seven quarters after graduation in year $i$ , were unemployed. $L_i$ and $N_i$ are		
four to seven quarters	calculated annually by the Danish Agency for Institutions and Educational		
after graduation in	Grants who publish the figures during year $i+3^5$ .		
year N (per cent)	Then, let $n_i$ be the number of graduates from ITU's MSc study programmes in		
, " ,	year $i$ and let $l_i$ be the share who, measured after four to seven quarters after		
	graduation in year $i$ , were unemployed. $L_i$ is also calculated annually by the		
Danish Agency for Institutions and Educational Grants and published du			
	year i+3.		
	For example: The standard is met in 20	D21 if, and only if:	
		• •	

<sup>&</sup>lt;sup>5</sup> For eksempel lagdes dimittendledighed for delte kandidatuddannelser for dimittendår op til og med 2014 på nettet i 2017, se <u>ledighed</u>, <u>organiseret efter uddannelser (excel)</u>

5

	$ (I_{2016}n_{2016} + I_{2017}n_{2017} + I_{2018}n_{2018}) / (n_{2016} + n_{2017} + n_{2018}) \le $ $ (L_{2016}N_{2016} + L_{2017}N_{2017} + L_{2018}N_{2018}) / (N_{2016} + N_{2017} + N_{2018}). $
Employment rate in year N (per cent)	Dage beskæftiget i procent af dage i arbejdsstyrken, opgjort for fuldførte 12-23 måneder efter fuldførelsestidspunkt. Dage i arbejdsstyrken er summen af dage, hvor personen er beskæftiget (dage_besk_sum) eller ledig (dage_ledig_sum). Dvs dage_beskGrad=dage_besk_sum/(dage_besk_sum+dage_ledig_sum)*100 (enheden er dage i primær tilstand). Dimittender, der er i gang med en uddannelse, regnes ikke som beskæftigede, men som uden for arbejdsstyrken - og dimittender uden for arbejdsstyrken indgår ikke i udregningen af beskæftigelsesgraden. Published 4 years after the graduation year.