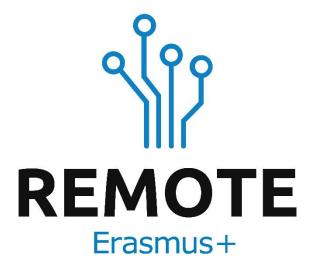


WP3-A4 Report.

Quality of remote teaching and assessment in STEM areas:

Gap analysis based on questionnaires administered to students and academics.



REMOTE: Assessing and evaluating remote learning practices in STEM



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Quality of remote teaching and assessment in STEM areas: Gap analysis based on questionnaires administered to students and academics

28th of March 2024

Objective

The analysis aims to point out and quantify the so-called "gaps" in remote teaching and assessment, which are understood as the more problematic aspects at present. Through questionnaires submitted in four European universities, within the framework of degree courses in STEM disciplines, the dual perspective of students and lecturers was considered. The activity is part of the work package WP3.A4 of the European project "REMOTE - Assessing and evaluating remote learning practices in STEM", Erasmus+, KA220-HED - "Cooperation partnerships in higher education", and is broadly described in the following three sections: "1. Construction of questionnaires", "2. Administration of questionnaires", and "3. Preliminary results".

This work has been developed by the partnership of the Erasmus+ co-funded project 'REMOTE: Assessing and evaluating remote learning practices in STEM'

1. Construction of questionnaires

A thorough analysis of the scientific literature (carried out in WP2.1 of the REMOTE project itself) allowed to identify a set of potentially problematic aspects (or constructs), which characterise remote learning/teaching in STEM areas (see Table 1). It can be seen that the majority of the aspects are common to both students (S) and lecturers (L), while other more specific aspects apply only to one or the other part. For each construct, a "triplet" of three different items (i.e., questions relevant to the construct itself) were formulated (e.g., items 2.3.1, 2.3.2 and 2.3.3 for construct 2.3). This sort of redundancy will be used to provide robustness to the results of the study.

The answers to each item are expressed on a 7-level scale (1 to 7) with increasing direction in terms of gap (the higher the level the wider the gap). The constructs were developed separately for student and lecturers.

Each questionnaire has an initial part of demographic information, which is omitted for simplicity. Tables A1 and A2 (in the Appendix section) show the items of both the questionnaires. Even for the several overlapping aspects/constructs in the two questionnaires (cf. the last two columns of Table 1), the items were customised to suit the respective target populations.

Table 1. List of aspects/constructs considered potentially problematic, based on a literature review. Some aspects apply to both students (S) and lecturers (L), while others apply to only one of the two respondent parties.

Dimension	Aspect / Construct	Description	Appli to	cable
			(S)	(L)
1. Resource availability and	1.1 Accessibility to materials	Ease of access to teaching materials from any location.	√	Х
accessibility	1.2 Accessibility to evaluation resources	Ease of access to resources (software and hardware) for an effective online evaluation.	√	√
	1.3 Access equity	Equal access to technological resources for online teaching and assessment.	√	√
2. Technical responsiven ess	2.1 Connection and web platform adequacy	Technological stability and reliability of online platforms for lectures and exams, in addition to the quality of the Internet connection.	√	√
	2.2 Student-lecturer interaction	cturer Effectiveness of communication, mutual interaction ar support in an online learning context.		√
	2.3 Technical problem solving	Ability to manage technical problems during online lectures and exams.	√	√
3. Training	3.1 Preparation and training for managing lectures	Preparation and training of lecturers on the use of online technologies to conduct exams and online evaluation.	X	√
	3.2 Preparation for managing the evaluation	Preparation and training of lecturers on the use of online technologies to conduct online exams effectively, including the creation of assessment materials.	X	✓
	3.3 Institutional support to lecturers	Level of support and assistance provided to lecturers by the institution for online teaching and evaluation.	X	√
4. Online assessment	4.1 Adequacy of assessment methods	Adequacy of assessment methods in use to the online context.	√	✓
	4.2 Adequacy of evaluation feedback	Promptness and quality of feedback provided to students following exams.	√	√
	4.3 Quality of education	Online activities can undermine the achievement of the expected learning outcomes.	√	√
5. Social dynamics	5.1 Gender diversity	Online activities can for some reason undermine gender equality.	√	√
	5.2 Community	Online activities can undermine the sense of belonging to the university community.	√	X
	5.3 Academic integrity (honesty)	Extent to which online exams maintain high ethical standards, including anti-fraud measures.	√	√

2. Administration of questionnaires

Both questionnaires were administered to the four partner universities of the REMOTE project: Politecnico di Torino (PoliTO), Universitat Internacional de Catalunya (UIC), University of Girona (UdG), and University of Minho (UMinho). Each university identified appropriate samples of lecturers and students. The questionnaires were administered through the LimeSurvey platform and were completed during the month of February 2024. Table 2 shows the number of respondents who completed the relevant questionnaires. Some disparities in participation can be observed, partly commensurate with the size of the universities involved, and partly related to other contingent factors (e.g., differences in terms of incentives for completion, dissemination channels used, respondents' sensitivity, etc.). In general, the overall number of respondents can be considered in line with expectations and acceptable for the intended statistical analysis.

Table 2. Number of respondents that completed the questionnaires administered at the four European partner universities.

Questionnair	E	Overall			
е	PoliT0	UdG	UIC	UMinho	
Students (S)	248	137	136	32	553
Lecturers (L)	89	18	28	41	176

3. Preliminary results

The results, which can be accessed in their entirety in the embedded Excel file here (see the "(S) Data" and "(L) Data" spreadsheets):



were subjected to an analysis – still in progress – of which here are some preliminary results. First of all, a pre-processing of the answers given by the individual respondents was carried out, based on two elaborations:

1. Aggregation of the answers (expressed on a rating scale from 1 to 7) of each triplet of items referring to the same aspect/construct, through the median operator. For example, assuming that a certain respondent gives the following answers to a certain triplet of items:

$$1.1.1 \rightarrow 6, 1.1.2 \rightarrow 7, e \ 1.1.3 \rightarrow 4, \quad (1)$$

the median associated with aspect/construct 1.1 will be 6. This aggregation gives robustness to the results, filtering out possible outliers. Furthermore, the median is a central tendency indicator compatible with the ordinal scale properties of ratings.

2. Transformation of the (median) ratings for all aspects/constructs of the questionnaire into a single ranking and, subsequently, association of a rank with each aspect/construct. With reference to the ratings in the first two columns of Table 3, the following ranking would be obtained:

$$1.3 < (1.1 \sim 2.3 \sim 4.1 \sim 5.1 \sim 5.3) < (1.2 \sim 2.2 \sim 4.2 \sim 4.3) < 2.1 < 5.2), (2)$$

where the symbol "<" means "less critical than", and the symbol "~" means "indifferent to". So, aspects/constructs are ranked in order of increasing criticality (understood as the width of the gap). In the ranking in Eq. 2.

The rank of the individual aspects/constructs within the ranking is then determined, i.e. their relative position (e.g., 1st, 2nd, 3rd); if several values have the same rank (i.e., they are tied in the ranking), the so-called mean rank is conventionally used. The resulting rank of each aspect/construct will be used as a variable of interest for subsequent analyses. The transformation of questionnaire ratings into ranks was introduced to facilitate comparability between the results of different questionnaires¹.

lower ones. For this reason, it would be questionable to aggregate ratings by different respondents through indicators of central tendency.

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¹ Rating scales may be used subjectively, as there is no absolute reference shared by all respondents. For example, let us consider the seven-level ordinal scale: very low, low, moderately low, intermediate, moderately high, high, and very high gap width; "indulgent" respondents will tend to assign higher levels whereas "severe" respondents will tend to assign

Table 3. Example of transforming (median) ratings, obtained from the scale levels into (mean) ranks. The ranking in Eq. 2 was then converted into the specific ranks shown in the last column of the table.

Aspect/construct	(Median) rating	Rank
1.1	2	4
1.2	3	8.5
1.3	1	1
2.1	4	11
2.2	3	8.5
2.3	2	4
4.1	2	4
4.2	3	8.5
4.3	3	8.5
5.1	2	4
5.2	5	12
5.3	2	4

Data were then subjected to statistical analysis (still ongoing), of which some preliminary results are provided here. Table 4 contains the average values of the variable of interest (rank) for the aspects/constructs of interest, both at a general level and at a university-disaggregated level. The Pareto diagram in Fig. 1 shows that the most critical constructs at a general level are: 5.2 (Community), 5.3 (Academic integrity), 4.2 (Adequacy of evaluation feedback), 4.3 (Quality of education) and 4.1 (Adequacy of assessment methods). Considering the data disaggregated by university, it can be seen that - apart from a few small variations – they seem to confirm the general trend. In other words, there is a good degree of agreement among the respondents, regardless of which university they belong to. This impression can also be appreciated quantitatively, considering the Pearson product-moment-correlation coefficients in Table 5.

Table 4. Summary of the student-side questionnaire results. The table shows average values of the variable of interest (rank) for the aspects/constructs of interest, both at an overall level and at a university-disaggregated level.

Aspect/Constru	E	uropean	iniversit	ies	Overall
ct	PoliT0	UdG	UIC	UMinho	
1.1	4.8	5.0	4.9	4.9	4.9
1.2	5.7	5.6	5.7	6.4	5.7
1.3	4.7	4.6	4.7	6.4	4.8
2.1	5.9	5.3	5.5	6.0	5.6
2.2	6.3	6.1	6.2	6.1	6.2
2.3	5.4	5.6	6.0	6.0	5.6
4.1	7.5	7.2	6.9	7.3	7.3
4.2	7.9	7.9	7.7	6.8	7.8
4.3	7.2	7.9	8.1	7.4	7.6
5.1	4.1	5.3	5.7	4.3	4.8
5.2	10.3	8.9	8.4	8.4	9.4
5.3	8.1	8.6	8.2	7.8	8.3
1.1	4.8	5.0	4.9	4.9	4.9
1.2	5.7	5.6	5.7	6.4	5.7
1.3	4.7	4.6	4.7	6.4	4.8
2.1	5.9	5.3	5.5	6.0	5.6

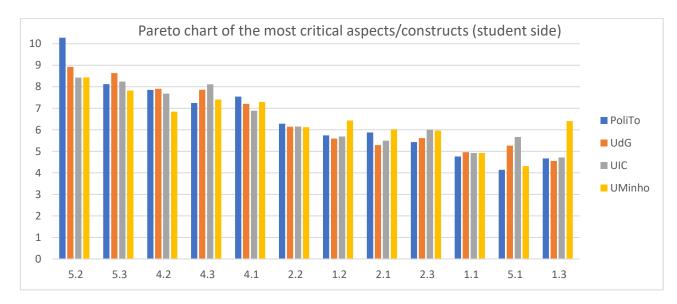


Fig. 1. Pareto chart relating to the summary data in Table 4, resulting from the analysis of the student-side (S) questionnaires. Aspects/constructs are ordered in descending order with respect to the overall values in the last column of Table 4.

Table 5. Pearson product-moment-correlation coefficients (and relevant *p*-values in brackets), related to the univerity-disaggregated data in Table 4 (student-side analysis). The analysis was conducted using Minitab® statistical software.

(S) Correlations: PoliTO; UdG; UIC; UMinho

	PoliTo	UdG	UIC
UdG	0.938		
	(0.000)		
UIC	0.897	0.987	
	(0.000)	(0.000)	
UMinho	0.901	0.834	0.801
	(0.000)	(0.001)	(0.002)

A similar study was carried out for the questionnaires administered to lecturers. In particular, a certain alignment is confirmed in the answers given by respondents from the different universities (cf. Table 6, Fig. 2, and Table 7). However, the most critical aspects/constructs are somewhat different from those ones resulting from the student-side questionnaires. On the lecturer side, the aspects perceived as most problematic in general are: 2.2 (Student-lecturer interaction), 4.3 (Quality of education), 3.2 (Preparation for managing the evaluation), and 5.3 (Academic integrity). Let us note that aspect 2.2 has little criticality on the student side (cf. Fig. 1); on the other hand, aspect 4.2 (Adequacy of evaluation feedback), while critical on the student side, is not critical on the lecturer side.

Table 6. Summary of the lecturer-side questionnaire results. The table shows average values of the variable of interest (rank) for the aspects/constructs of interest, both at an overall level and at a university-disaggregated level.

Aspect/Construct	Eu	European universities			
	PoliT0	UdG	UIC	UMinho	
1.2	6.5	5.1	6.1	6.7	6.4
1.3	5.7	7.1	5.2	6.5	5.9
2.1	5.0	4.8	5.4	5.9	5.2
2.2	9.3	8.1	8.2	9.3	9.0
2.3	4.5	5.4	4.9	6.1	5.0
3.1	8.4	7.5	8.3	7.5	8.1
3.2	8.8	9.1	9.3	8.1	8.7
3.3	5.5	5.6	6.7	6.7	6.0
4.1	8.0	7.9	6.8	7.5	7.7
4.2	4.7	4.7	4.7	4.0	4.6
4.3	9.2	8.4	8.6	8.0	8.7
5.1	7.3	7.5	6.3	6.0	6.9
5.3	8.0	9.9	10.1	8.8	8.7

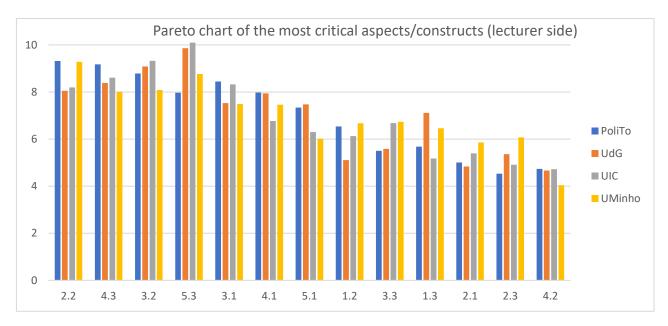


Fig. 2. Pareto chart relating to the summary data in Table 6, resulting from the analysis of the lecturer-side (L) questionnaires. Aspects/constructs are ordered in descending order with respect to the overall values in the last column of Table 6.

Table 7. Pearson product-moment-correlation coefficients (and relevant *p*-values in brackets), related to the univerity-disaggregated data in Table 6 (lecturer-side analysis). The analysis was conducted using Minitab® statistical software.

(L) Correlations: PoliTO; UdG; UIC; UMinho

	PoliTo	UdG	UIC
UdG	0.840		
	(0.000)		
UIC	0.852	0.863	
	(0.000)	(0.000)	
UMinho	0.836	0.808	0.859
	(0.000)	(0.001)	(0.000)

To better grasp this diversity of views between the student and lecturer populations, let us consider the two-dimensional map in Fig. 3, which positions the analysed aspects/constructs according to the overall indicators in Table 4 (S) and Table 6 (L). The map shows no correlation (R2 \approx 15%) between the two populations of respondents. The only aspects/constructs considered problematic for both populations are 5.3 and 4.3 (top right position). On the other hand, the aspects positioned on the bottom-right quadrant (e.g., 2.2) are considered problematic on the lecturer side but not on the student side, while those positioned near the top-left quadrant (e.g., 4.2) are considered problematic on the student side but not on the lecturer side.

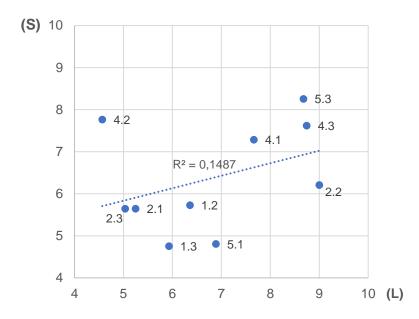


Fig. 3. Map of the positioning of the analysed aspects/constructs, from the dual perspective of students (vertical axis) and lecturers (horizontal axis). The numerical values are the general ones from Table 4 (S) and Table 6 (L).

APENDIX

Table A1. Student-side questionnaire, entitled "Challenges in remote learning: your experience as a student".

Dimension	Aspect/Construct	Item	Scale
Resource availability and accessibility	1.1 Accessibility to materials	1.1.1 How often do technical issues prevent you from accessing online teaching materials?	1 - Never 7 - Always
		1.1.2 Assess the likelihood of facing challenges in accessing teaching materials due to compatibility issues with your devices or software.	1 - Very unlikely 7 - Very likely
		1.1.3 To what extent do the available teaching materials meet your diverse learning needs?	1 - Fully meets needs 7 - Not at all
	1.2 Accessibility to evaluation resources	1.2.1 How frequently do you encounter technical issues with software or platforms during online assessments?	1 - Never 7 - Always
		1.2.2 Rate the adequacy of the resources (like software, hardware) provided for conducting online evaluations.	1 - Fully adequate 7 - Completely inadequate
		1.2.3 Assess the likelihood of encountering insufficient or outdated evaluation resources in future online assessments.	1 - Very unlikely 7 - Very likely
	1.3 Access equity	1.3.1 How often do you perceive disparities in access to online learning resources among different student groups?	1 - Never 7 - Always
		1.3.2 Rate the extent to which you believe your own access to technological resources for online learning is equal to that of your peers.	1 - Completely equal 7 - Not equal at all
		1.3.3 To what extent do you think the problem of the "digital divide" (e.g. unequal levels of Internet connectivity) hinders equal access to online education?	1 - Not at all 7 - To a great extent
2. Technical responsiveness	2.1 Connection and web platform adequacy	2.1.1 Rate the reliability of the online platforms used for lectures and exams in terms of uptime and accessibility.	1 - Very reliable 7 - Very unreliable
		2.1.2 How adequate do you find the user interface and overall user experience of the online learning platforms?	1 - Very adequate 7 - Very inadequate
		2.1.3 Evaluate the impact of technical issues on the online platforms on your overall learning experience.	1 - No impact 7 - Major impact
	2.2 Student-lecturer interaction	2.2.1 How often do you experience difficulties in reaching out to lecturers for assistance in an online setting?	1 - Never 7 - Always
		2.2.2 Rate the effectiveness of the communication channels used for interacting with lecturers online.	1 - Very effective 7 - Very ineffective
		2.2.3 Evaluate how supported you feel by your lecturers in the online learning context.	1 - Fully supported 7 - Not supported at all
	2.3 Technical problem solving	2.3.1 How frequently do you encounter technical issues that disrupt your participation in online classes or exams?	1 - Never 7 - Always
		2.3.2 Rate the effectiveness of the support provided when encountering technical issues during online learning.	1 - Very effective 7 - Very ineffective
		2.3.3 How often do technical issues remain unresolved for prolonged periods, affecting your learning experience?	1 - Never 7 - Always

4. Online assessment	4.1 Adequacy of	4.1.1 Rate the level of fairness of the online assessment	1 - Just as fair 7 - Much
4. Offilite assessment	assessment methods	methods in comparison to traditional in-person exams.	less fair
		4.1.2 How often do the online assessment methods fail to accurately evaluate your understanding of the course material?	1 - Never 7 - Always
		4.1.3 Rate the extent to which the online assessments encourage critical thinking and problem-solving skills.	1 - To a great extent 7 - Not at all
	4.2 Adequacy of evaluation feedback	4.2.1 Rate the timeliness of the feedback provided after completing online assessments.	1 - Very prompt 7 - Extremely delayed
		4.2.2 Evaluate the extent to which feedback on online assessments helps you understand your mistakes and learn from them.	1 - Extremely helpful 7 - Not helpful at all
		4.2.3 Rate the level of detail provided in the feedback for understanding your performance in online assessments.	1 - Highly detailed 7 - Very superficial
	4.3 Quality of education	4.3.1 Rate the effectiveness of the online course format in facilitating deep understanding of the subject matter.	1 - Highly effective 7 - Not effective at all
		4.3.2 How often do you feel that online courses fail to provide the same level of education quality as in-person courses?	1 - Never 7 - Always
		4.3.3 Assess the adequacy of resources (like libraries, laboratories) available to you in an online learning format.	1 - Fully adequate 7 - Completely inadequate
5. Social dynamics	5.1 Gender diversity	5.1.1 To what extent do you believe that online activities promote gender equality?	1 - To a great extent 7 - Not at all
		5.1.2 Evaluate the extent to which gender biases affect the learning experience in your online courses.	1 - Not at all 7 - To a great extent
		5.1.3 How inclusive do you find the online learning environment in terms of gender representation?	1 - Very inclusive 7 - Not inclusive at all
	5.2 Community	5.2.1 Rate the effectiveness of online platforms in facilitating a sense of community among students.	1 - Highly effective 7 - Not effective at all
		5.2.2 Rate the sense of belonging to the university or academic community you experience in an online learning setting.	1 - Feel a strong sense of belonging 7 - Do not feel a sense of belonging at all
		5.2.3 To what extent do you feel connected to your peers in the online learning environment?	1 - Very connected 7 - Not connected at all
	5.3 Academic integrity (honesty)	5.3.1 How frequently do you encounter situations in online exams where academic integrity is compromised?	1 - Never 7 - Always
		5.3.2 Assess the likelihood of students engaging in dishonest behaviors due to the perceived ease of cheating in online environments.	1 - Very unlikely 7 - Very likely
		5.3.3 Evaluate the extent to which you believe online exams maintain principles of ethical conduct (e.g., faireness, honesty, integrity, etc.).	1 - To a great extent 7 - Not at all

Table A2. Lecturer-side questionnaire, entitled "Challenges in remote teaching and assessment: your experience as a faculty member".

Dimension	Aspect/Construct	Item	Scale
Resource availability and accessibility	1.2 Accessibility to evaluation resources	1.2.1 How much do hardware/software limitations affect your ability to conduct effective online evaluations?	1 - Not at all 7 - Extremely
		1.2.2 How often do you have to compromise on evaluation quality due to resource accessibility issues?	1 - Never 7 - Always
		1.2.3 How adequate are the evaluation tools provided to you for assessing students online (e.g., Moodle, Google Classroom, Zoom, Survey Monkey, etc.)?	1 - Perfectly adequate 7 - Completely inadequate
	1.3 Access equity	1.3.1 Considering students' personal financial constraints, how fair do you find the availability/accessibility of digital tools and resources at your university, on campus?	1 - Very equitable 7 - Not equitable at all
		1.3.2 How equitable do you believe the distribution of digital tools and resources is for students, when accessing them from outside your university (e.g., from home or other external locations)?	1 - Very equitable 7 - Not equitable at all
		1.3.3 To what extent do you perceive a disparity in technological resource access among students, which affects their ability to participate in online learning?	1 - No perceived disparity 7 - Extreme perceived disparity
2. Technical responsiveness	2.1 Connection and web platform adequacy	2.1.1 How would you rate the quality of audio and video streaming on your current online platform?	1 - Excellent 7 - Very poor
		2.1.2 How often do you find that the web platform's features limit the types of remote teaching/assessments you can perform?	1 - Never 7 - Always
		2.1.3 How frequently do you experience interruptions due to connectivity issues in online teaching?	1 - Never 7 - Always
	2.2 Student-lecturer interaction	2.2.1 How would you rate the overall quality of interaction you have with students in an online teaching environment?	1 - Excellent 7 - Very poor
		2.2.2 How often do you feel that the online platform hinders meaningful dialogue with students?	1 - Never 7 - Always
		2.2.3 How frequently do you encounter barriers to providing immediate feedback to students during online assessment?	1 - Never 7 - Always
	2.3 Technical problem solving	2.3.1 In instances of technical difficulties, how promptly do you receive support from the IT department?	1 - Very promptly 7 - Not promptly at all
		2.3.2 How often do you encounter technical problems that disrupt online teaching or assessment?	1 - Never 7 - Always
		2.3.3 How effectively can you communicate technical issues to the relevant support team to get them resolved?	1 - Very effectively 7 - Not effectively at all

3. Training	3.1 Preparation and training for managing lectures	3.1.1 How adequate do you find the provided training for conducting online lectures? (If no training was provided at all, answer "Completely inadequate")	1 - Very adequate 7 - Completely inadequate
		3.1.2 How relevant do you find the training content to your actual teaching needs? (If no training was provided at all, answer "Not relevant")	1 - Highly relevant 7 - Not relevant
		3.1.3 How much do you feel that the training enhances your effectiveness as an online lecturer? (If no training was provided at all, answer "Does not enhance")	1 - Greatly enhances 7 - Does not enhance
	3.2 Preparation for managing the evaluation	3.2.1 How effectively does the training prepare you for creating online assessment materials? (If no training was provided at all, answer "Not effectively at all")	1 - Very effectively 7 - Not effectively at all
		3.2.2 How sufficient do you find the training for using online tools and technologies in assessments? (If no training was provided at all, answer "Insufficient")	1 - Very sufficient 7 - Insufficient
		3.2.3 How relevant is the training content to the specific types of assessments you administer? (If no training was provided at all, answer "Not relevant")	1 - Highly relevant 7 - Not relevant
	3.3 Institutional support to lecturers	3.3.1 How responsive is the institution to your needs and challenges in online teaching?	1 - Very responsive 7 - Not responsive at all
		3.3.2 How effectively does the institution facilitate access to necessary online teaching resources?	1 - Very effectively 7 - Not effectively at all
		3.3.3 To what extent do you feel supported by the institution in developing your online teaching skills?	1 - Fully supported 7 - Not supported at all
4. Online assessment	4.1 Adequacy of assessment methods	4.1.1 How effective do you find the current online assessment methods in accurately evaluating student knowledge?	1 - Very effective 7 - Not effective at all
		4.1.2 How confident are you in the reliability of the results obtained through online assessments?	1 - Very confident 7 - Not confident at all
		4.1.3 How well do the assessment methods align with the learning objectives of your courses?	1 - Perfectly align 7 - Do not align at all
	4.2 Adequacy of evaluation feedback	4.2.1 How timely do you provide feedback to students following online assessments?	1 - Very timely 7 - Extremely delayed
		4.2.2 How clear and understandable do you believe your feedback is to students?	1 - Very clear 7 - Not clear at all
		4.2.3 How effective is the feedback you provide in enhancing student learning and understanding?	1 - Very effective 7 - Not effective at all
	4.3 Quality of education	4.3.1 To what extent do you believe online teaching methods engage students as effectively as in-person methods?	1 - To a great extent 7 - Not at all
		4.3.2 How effective do you find online activities in achieving the expected learning outcomes?	1 - Very effective 7 - Not effective at all
		4.3.3 How adequate do you find the online course materials in covering the course curriculum comprehensively?	1 - Very adequate 7 - Completely inadequate

5. Social dynamics	5.1 Gender diversity	5.1.1 How effective do you think online platforms are in fostering an environment of gender equality?	1 - Very effective 7 - Not effective at all
		5.1.2 To what extent do you believe that online education addresses the specific needs and perspectives of all genders?	1 - Fully addresses 7 - Does not address at all
		5.1.3 To what extent do you think online learning environments can contribute to reducing gender disparities in education?	1 - Greatly contribute 7 - Do not contribute at all
	5.3 Academic integrity (honesty)	5.3.1 How prevalent do you believe cheating or dishonest practices are in online assessments?	1 - Not prevalent 7 - Very prevalent
		5.3.2 How effective are the current measures implemented to ensure academic integrity in online exams?	1 - Very effective 7 - Not effective at all
		5.3.3 How sufficient do you find the institutional policies and support in addressing academic integrity issues in online learning?	1 - Very sufficient 7 - Insufficient