CYQAA CYPRUS AGENCY OF QUALITY ASSURANCE AND ACCREDITATION IN HIGHER EDUCATION

edar 111 6U09.

Doc. 300.1.3

Date: Date

Feedback Report from EEC Experts

- Higher Education Institution: University of Central Lancashire Cyprus (UCLan Cyprus)
- Town: Larnaca
- Programme of study Name (Duration, ECTS, Cycle)

In Greek:

Μεταπτυχιακό (Μάστερ) στην Ανάλυση Δεδομένων (1 ακαδημαϊκό έτος, 90 ECTS, Master of Science, Εξ

αποστάσεως)

In English:

MSc Data Analytics (1 academic year, 90 ECTS,

Master of Science, Distance Learning)

- Language(s) of instruction: English
- Programme's status: Currently Operating
- Concentrations (if any):

In Greek: N/A In English: N/A

KYΠPIAKH ΔHMOKPATIA REPUBLIC OF CYPRUS



The present document has been prepared within the framework of the authority and competencies of the Cyprus Agency of Quality Assurance and Accreditation in Higher Education, according to the provisions of the "Quality Assurance and Accreditation of Higher Education and the Establishment and Operation of an Agency on Related Matters Laws" of 2015 to 2021 [L.136(I)/2015 – L.132(I)/2021].



A. External Evaluation Committee (EEC)

Name	Position	University
Eleni Mangina	Professor in Computer Science	University College Dublin, Ireland
Edward W. Sun	Senior Professor of Data Science & FinTech	KEDGE Business School, Campus Bordeaux, France
Carlos Flavián	Professor of Marketing	University of Zaragoza, Spain
Stylianos Hatzipanagos	Professor of Centre for Online and Distance Education	University of London Worldwide, UK



B. Guidelines on content and structure of the report

The EEC based on the external evaluation report (Doc.300.1.1 or 300.1.1/2 or 300.1.1/3 or 300.1.1/4) and the Higher Education Institution's response (Doc.300.1.2), must justify whether actions have been taken in improving the quality of the programme of study in each assessment area.



1. Study programme and study programme's design and development (*ESG 1.1, 1.2, 1.7, 1.8, 1.9*)

Conclusions and final remarks by EEC	Actions Taken by the Institution	EEC's final recommendations and comments on the HEI's response
Currently there is no specific policy	We agree with the EEC's	Μη Συμμόρφωση
of review process of the program to	recommendation and would like to	
include the external stakeholders'	emphasise that the programme	
input in a formal procedure. It is	team considers it vital to build and	
recommended to specify a policy	sustain a strong network of nartners	
with a target to have the program	and long-term collaborations with	
review papel and aim on reviewing	denth and breadth Since the	
the curriculum. The industry	development of the conventional	
external advisors should have an	delivery of the MSc Data Analytics in	
active role in the reviews since the	2017 the team managed to develop	
role of the courses needs to be	a large network of national and	
more strategic in the context of the	international collaborators	
program in consideration of the	aspecially industry partners, which	
current expectations of employers	have been informally ongaging with	
The EEC recommends that the	the programme in terms of providing	
the EEC recommends that the	advise on surrisulum development	
university enhances the quality	advice on curriculum development,	
assurance practices by engaging and	industry knowledge/skill needs and	
receiving reedback from	Student employability aspects.	
International or local industry	woreover, our industry partners	
experts in the related field, to	nave been engaging in other	
assure that the program is enriched	educational activities, such as guest	
with key topics in the field. This will	lectures, field trips, real case studies,	
also contribute to the attractiveness	real life student projects, student	
of the program.	internships, student competitions,	
	student awards and many more.	
The EEC recommends that student	we welcome the EEC's constructive	
representation is ensured in the	recommendation to develop a more	
internal quality review process	formal and systematic approach	
(including meetings) at all times.	towards this and we acknowledge	
The scope of this review should	the substantial benefit and value this	
include an analysis of the learning	can offer to the programme. To this	
outcomes of the program to identify	end, the programme team along	
who are the exact intake	with the Head of the School will	
prospective applicants and the	proceed to form its first Advisory	
content of each course regarding	Board, which will provide formal	
the market needs in Data Analytics	advice and feedback to the	
and not to create false expectations	programme team, not only in terms	
for the applicants. Special focus	of its existing curriculum, but also in	
should be on the purpose of specific	terms of future directions and	
electives and the content of the	developments. It is expected that	
core courses.	the Advisory Board will be in place	

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If an industry and/or student	and active within the current	
representative is not present, the	academic year.	
meeting should not take place.		
	Regarding student engagement in	
	the review of the programme and	
	internal quality assurance processes,	
	this is something the University and	
	the School of Sciences already has in	
	place. According to our current	
	quality assurance policies, students	
	engage in the processes as follows:	
	Student Staff Liaison Generatings:	
	Committee (SSLC) meetings:	
	For each programme of study	
	and for each year of study,	
	representative whe	
	representative with is	
	during the SSIC meetings and	
	be the liaison between the	
	students and the programme's	
	academic team. The SSLC	
	meetings are carried out in a	
	way to provide student	
	representatives the	
	opportunity to provide	
	collective feedback about the	
	programme, individual	
	modules, university services,	
	and the overall student	
	experience and to make	
	recommendations for further	
	course development and	
	improvements. These meetings	
	are scheduled once per	
	semester (twice in the	
	Students are asked to provide	
	their feedback on six main	
	categories.	
	Teaching and Learning	
	Student Sunnort	
	Assessment and Feedback	
	Fmplovability	
	Course Organisation and	
	Management	
	Learning Resources	
	Liniversity Services	
	Overall Satisfaction	

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Students are also asked to provide what they consider the most positive aspect of the programme/module along with one thing they would like to improve, and identify the most effective elements for their learning • Module Feedback Questionnaires (MFQs): The purpose of the MFQs is to collect feedback from the students on each individual programme module, considering several aspects of the teaching and learning experience, such as teaching quality, learning value, support and guidance provided, assessment, quality of feedback, clarity of the marking scheme, organisation of the module, infrastructure, library resources, environment, learning IT resources, student support services, etc. The results of the MFQs are sent to each module leader, the course leader and the Head of School for internal review and action. Both, SSLC meeting minutes and MFQ results inform the annual Module Leader and Course Leader reports. Actions arising from SSLC meetings and MFQ results are discussed and addressed by the programme team accordingly, and feedback is provided to the students. School • Internal Academic Standards and Quality Assurance Committee (ASQAC): Each School has its own internal ASQAC that reports to the University ASQAC. The School Internal ASQAC includes in its membership constitution undergraduate (3rd year of students) and postgraduate student representatives. The School ASQAC holds three

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	meetings per academic year.	
	students along with the other	
	students along with the other	
	actively participating in all	
	actively participating in an	
	matters discussed as per the	
	respective agenda of the	
	meeting. The student feedback	
	is highly valued in terms of	
	ennancement and development	
	of academic regulations,	
	compliance with the CyQAA and	
	UK QAA guidelines and	
	legislation, the portfolio of	
	study, etc. Furthermore, during	
	the School ASQAC meetings, the	
	students are involved in the	
	internal evaluation processes of	
	the respective	
	department/School and the	
	programmes of study under	
	evaluation by CyQAA external	
	evaluation committees. Their	
	role in ASQAC includes the	
	consideration of specific self-	
	evaluation reports in relation to	
	the External Evaluations	
	concerning each School and its	
	programmes of study, in	
	accordance with standards set	
	and published by the QA Bodies,	
	the analysis of internal strengths	
	and weaknesses (SWOT analysis)	
	of the Department /School and	
	programme, as well as external	
	factors that create opportunities	
	and threats to achieve their	
	goals and many more.	
Regarding the curriculum, the EEC	We would like to thank the EEC for	Συμμόρφωση
recommends two different routes in	the constructive comment and the	
terms of the title of the program	thorough guidance provided for the	
and the content of the curriculum	two different programme directions.	
depending on what the learning	The programme team has reviewed,	
outcomes are and what the	researched and discussed the two	
targeted intake of students'	options and decided to proceed with	
background is. The following	the second one, i.e. MSc in Business	
changes are recommended based	Data Analytics. The team believes	
on the choice of title of the MSc	that the existing content of the	
program:	programme is better represented	
	with this award title.	

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O MSc in Data Analytics: a series of changes to the curriculum need to take place to ensure that courses not related to the learning outcomes of the program are reduced and the focus is on Data Analytics if the program is aimed for students who wish to develop a career in data analytics. For example, in the current curriculum the only modules related to DA are: CO4761; CO4760; CO4762. The core modules expected within an MSc in DA should provide core modules for the students to demonstrate in depth knowledge in computational methods, including computer programming and scientific visualisation. The EEC recommends the consideration of the following example module titles: Data Programming with R; Statistical Machine Learning; Data Programming with SAS; Data Programming with Python; Predictive Analytics; Multivariate Analysis; Statistical Network Analysis; Time Series; Stochastic Models; Machine Learning and AI. In this case the program would be suitable for graduates from ICT background and need to develop a career in data analytics. O MSc in Data Analytics for Business: EEC recommends that the title of the course should be updated if the aim of the course is for the students to be provided with a set of analytical methods for solving problems to aid decision making in Business within the context of large quantities of data. In this case the program would be suitable for graduates from different disciplines or applicants with practical experience that would like to re-direct their career. Within an MSc in Business Analytics the applicants will be able to apply business analysis tools and apply

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At its current state, the programme covers in-depth skills in data analytics, including:

- Statistical Methods
 - Descriptive statistics: Basic Statics (Central Tendency, Data Dispersion)
 - Inferential Statistics: statistical significance, hypothesis testing, t-tests, non-parametric tests
 - Predictive statistics: Regressions (linear, multilinear, ANOVA, logistic, non-parametric), Timeseries (exponential smoothing, ARIMAX models)
 - Statistical methods for outlier detection (parametric, nonparametric)
 - Statistical Tests of Significance for model selection
- Programming for Analytics
 - programming: R Programming skills (variables, conditionals, loops), Descriptive Statistics, Data Visualisation (simple correlation, graphs, complex graphs), Data Preparation, Statistical inference (t-tests, goodness of fit), Regressions (linear, multilinear, diagnostics, ANOVA, logistic, nonparametric), **Time-series** (exponential smoothing, ARIMAX models)
 - SQL programming: querying and reporting, filters, groupings, aggregates, ranking, programming (views, triggers, indexes, cursors, stored procedures,

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current research into data science, decision making and management science.

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O In either MSc title the program director and Teaching and Learning Committee should focus on the in depth skills in data analytics as a learning outcome for the students enrolled (i.e. Statistical methods; Programming for Analytics; Decision and Behavioural Analytics; Mastering Big Data). Minimum entry requirements in terms of Maths and Statistics for the successful student progression during the program and limiting the withdrawal rate. variables, conditionals, loops), data preparation, data management

- Python programming: Programming skills (variables, conditionals, loops), Dataframes, Data Preparation,

Visualisations, Clustering, Regressions, Frequent Pattern Mining, Decision Trees

- Decision and Behavioural Analysis
 - Foundations and Technologies for Decision Making: Decision Support, Business Reporting, Business Performance Management, Visual Analytics
 - Analytics for Decision and Behavioural Analysis: Descriptive, Predictive (Data mining, classification, clustering, frequent pattern mining, text analytics, web analytics), Prescriptive (model-based decision making, modelling, simulation, automated decision systems, knowledge management)
- Data Management and Automations
 - Principles of Data Management
 - Data Architectures
 - Information Modelling
 - Data Storage and Operations
 - Data Integration
 - Data Preparation and Data Quality
 - Querying and Reporting
 - Data Warehousing
- Machine Learning and Data Mining



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- Data Pre-processing: Data	
Quality, Data Cleaning,	
Data Integration, Data	
Reduction, Data	
Transformation	
- Supervised Learning:	
Classification (decision	
tree induction, Naive	
Bayesian Classification,	
rule-based, neural	
networks, support vector	
machines, classification	
using frequent patterns,	
lazy learners, genetic	
algorithms, bagging,	
boosting, random forests,	
ensemble), Regressions	
(linear, multiple-linear,	
ANOVA, logistic, non-	
parametric), Model	
Evaluation and Selection	
(metrics for classifier	
performance, holdout	
method, sampling, cross	
validation, bootstrap,	
statistical tests of	
significance, Clustering	
Tendency, number of	
clusters, cluster quality)	
- Unsupervised Learning:	
Clustering (partitioning	
methods, hierarchical	
methods, density-based	
methods, grid-based	
methods, probabilistic	
clustering, clustering with	
constraints), Pattern	
Mining (Frequent Pattern	
Mining, constrained FPM,	
association analysis,	
sequence analysis)	
- Reinforcement Learning	
(part of elective in Artificial	
Intelligence): Associative	
reinforcement learning,	
Deep reinforcement	
learning, Adversarial deep	
reinforcement learning	
Fuzzy reinforcement	
learning	



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	 Text Analytics (Text Mining, Sentiment Analysis) Web Analytics (Web Mining, Social Analytics) Other topics: Data Mining for Society, Legal and Ethical Aspects of Data Mining 	
	Following from the structure of the programme and its target audience, the minimum programme requirements (admission criteria) include at least a Bachelor's degree (Lower Second Class of 2.2) or equivalent. Applicants must demonstrate an adequate level of English Language proficiency at least IELTS 6.5 or equivalent. Interviews with the course leader may be required as part of the admissions process, especially for prospective students who cannot demonstrate basic mathematics and statistics skills or programming skills	
	It should be noted that students who do not have the knowledge and/or skills (e.g. mathematics and statistics skills) to successfully follow and complete the programme can be provided with the option to take relevant preparatory modules before they are admitted to the programme.	
The EEC also recommends that the process of collecting, analysing and communicating student and other statistics is rigorous and upgraded with gender based data, so that it is digitised, different sources of information are cross-referenced so that contradictions, errors and gaps are avoided, and constructive analytics can be communicated efficiently	The University currently collects and analyses student data across multiple levels (programme level, School level, University level). It should be noted that such data is an integral part of the annual programme monitoring process. The following minimum statistical data is currently considered and presented on the annual course leader report	Συμμόρφωση



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(i.e. programme evaluation report)	
for each programme of study:	
Application data, which	
includes:	
 Applications by age 	
 Applications by 	
gender	
 Applications by 	
residency	
 Applications by 	
ethnicity	
 Applications by 	
declared disability	
 Enrolment data, which 	
includes:	
\circ New enrolments	
 Enrolments by age 	
 Enrolments by 	
gender	
 Enrolments by 	
residency	
 Enrolments by 	
, ethnicity	
 Enrolments by 	
declared disability	
 Progression data, which 	
includes:	
 Completion of 	
studies	
 Withdrawal of 	
studies	
 Interruption of 	
studies	
 Completion of study data, 	
which includes:	
\circ Completion by age	
 Completion by 	
gender	
 Completion by 	
residency	
 Completion by 	
ethnicity	
 Completion by 	
declared disability	
It is also worth mentioning that upon	
its completion, the Course Leader	
report is made available to all the	
students of the programme.	



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The programme team recognises that there is always room for improvement, and we are committed to continue and enhance our data collection and analysis processes at all levels
processes at all levels.



2. Student - centred learning, teaching and assessment (ESG 1.3)

Conclusions and final remarks by EEC	Actions Taken by the Institution	EEC's final recommendations and comments on the HEI's response
The program could be reviewed in terms of T&L approaches to promote online student-centred learning and increase student autonomy and confidence, which is of high importance for the market needs in Data Analytics. We provided examples of how this can be done further down.	Student engagement and student- centred learning is at the core of the School's Policy for Teaching, which aims to provide guidance for the development of an exceptional learning environment across all the programmes of the School. Among other things, the policy provides general guidelines for academics to ensure student-centred learning. To this end, throughout the programme delivery, the academic team utilises different approaches to engage students in the learning process. A summary of the applicable teaching and learning approaches is available in each of the programme's module descriptors (provided in Appendix 1) as well as in the individual learning guides for each module. As it is demonstrated by the weekly activities for each module, the team utilises a diverse approach to teaching learning activities, some targeting individual and independent learning, whereas others target collaborative learning. Learning activities include, but are not limited to, the use of live lectures, synchronous breakout rooms, asynchronous discussion forums, problem based learning, gamification activities, discussion and reflection on case studies, formative and summative assessment, interactive exercise, self-assessment exercise, self-assessment exercise, self-assessment exercise, application of knowledge to real life scenarios, online laboratories, etc.	Μερική Συμμόρφωση

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Rigorous internal reporting in terms	We agree with the EEC's	Μερική Συμμόρφωση
of the pipeline year on year of	recommendations, and we	
students graduating and alumni for	acknowledge the importance of	
future data analysis is highly	having such information available	
recommended. This reporting	and sharing it with students. Indeed,	
should include the student's	the School and the University are	
progression to industry and	actively working towards this.	
academia after the graduation or		
the advancement of their current	Overall, collection of formal alumni	
career (reporting should be on each	information and communication is	
academic year and not on the	primarily handled centrally by the	
average for all years of operation).	University's Student Support Office	
	and the University's Alumni officer.	
	Given the young age of the	
	University and the small number of	
	students/graduates, until recently,	
	aumini specific information was not	
	available of representative to be	
	Iormally shared with students,	
	although anecootal information is	
	as general information about future	
	employability and notential career	
	nathways	
	pathways.	
	In its efforts to strengthen the	
	collection of information and further	
	support its alumni, the University	
	has recently established an Alumni	
	Association, basic details of which	
	are specified on its website at	
	https://www.uclancyprus.ac.cy/con	
	nect/alumni-association/. The	
	University has also established the	
	UCLan Cyprus Alumni Steering	
	Committee after elections in July	
	2020. The steering committee is now	
	in office and comprises of a dynamic	
	group of graduates who together	
	with the UCLan Cyprus academics,	
	support the University in its efforts	
	to establish a strong alumni network,	
	whilst administering the Alumni	
	Association of the University. The	
	members of the committee aspire to	
	provide a constructive platform for	
	networking with fellow graduates	
	and aim to support current students	
	by sharing knowledge and expertise	
	on now to advance their career path	

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post-graduation. Moreover, aiming to establish a strong and mutually beneficial relationship with its graduates, the University has an open communication channel and a procedure in place for the graduates subscribe to the Alumni to Association leading to an already available database of alumni that we intend to grow as the University is further developing. All latest news and announcements as well as the eform for subscription to the Alumni Association can be found on the University's website (https://www.uclancyprus.ac.cy/con nect/alumni-association/). Moreover, the UCLan Cyprus Alumni has its own Facebook group, where announcements, promotional material and other related info are published. Beyond the centrally coordinated University efforts, every effort will be made at the programme level to keep in contact with the programme's alumni and collect relevant information through different means (e.g. LinkedIn). Additionally, the Student Experience and Enhancement Committee of the University in collaboration with the Student Support Office and under the coordination of the Alumni Officer, has recently developed an Alumni Survey that allows the collection of information on the graduates' progression to the employment market or academia. Moreover, programme graduates who consist of successful cases in terms of employability will be invited to provide guest seminars/lectures and share their experiences.

All relevant alumni data will also be kept separately and annually at the programme level.

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The teaching and learning	The University considers academic	Μερική Συμμόρφωση
effectiveness are highly linked with	development, and more	
the level of expertise of the	importantly, the cultivation of	
teaching staff. All staff have	pedagogical skills, an essential	
compulsory basic pedagogical	element for the successful delivery	
training but not sufficient on e-	of a programme and the provision of	
learning. The Associate UK HEA	an effective student experience.	
Fellowship that members of staff	As the EEC points out, all academic	
have the opportunity to receive	staff have compulsory pedagogical	
does not necessarily have a focus on	training through the UK HEA and	
distance and online practitioners.	they all must achieve Fellow level.	
The close relationship with UCLan	Beyond that, the University has the	
UK would help to address this need	Teaching and Learning Enhancement	
for continuous professional	Committee (TLEC) that is responsible	
development, via the use of joint	to provide e-learning training and	
seminars and workshops.	support for all members of academic	
	staff. Throughout the academic year,	
	beyond the e-learning seminars and	
	trainings, TLEC provides forums for	
	the exchange and sharing of	
	information between academics	
	who deliver on distance learning	
	programmes. This takes place	
	through interactive workshops as	
	well as a monthly	
	bulletin/newsletter where	
	academics can write about their own	
	classroom experience.	
	TLEC works closely with the UCLan	
	UK's Centre of Collaborative	
	Learning (CCL), and specifically, the	
	Technology Enabled Learning and	
	Teaching (TELT) unit of CCL. Through	
	TELT, academics have access to	
	several professional development	
	resources including in the following	
	categories:	
	 Inclusive Learning 	
	(producing inclusive and	
	accessible content)	
	 Teaching Technologies 	
	 Creating and re-using e- 	
	learning content	
	 E-learning packages and 	
	interactive apps	
	Graphics and animations	
	Video production	
	Classroom Technologies	
	Case Studies	

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ΦΟΡΕΑΣ ΔΙΑΣΦΑΛΙΣΗΣ ΚΑΙ ΠΙΣΤΟΠΟΙΗΣΗΣ ΤΗΣ ΠΟΙΟΤΗΤΑΣ ΤΗΣ ΑΝΩΤΕΡΗΣ ΕΚΠΑΙΔΕΥΣΗΣ

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	 In addition to the resources available, through e3Hub (part of TELT), academics have access to seminars and trainings focusing on areas such as, but not limited to: Feedback and assessment Content creation and curation Collaborative practice Digital learning environments Student engagement Learning design and development 	
	Some of these trainings are compulsory for academics delivering modules on distance learning programmes.	
	Finally, through CCL, there is an active blog that is shared between both campuses (UCLan Cyprus and UCLan UK) and in which academics can share their experiences as well as best practises in e-learning. https://msuclanac.sharepoint.com/s ites/TechnologyEnabledLearningTea ching	
	Of course, beyond all of the above, academics receive support (financial or otherwise) by the University to attend external seminars and trainings, according to their individual needs.	
	The University remains committed to support the academics and strengthen its collaboration with UCLan UK to continue enhancing its academic training provision for e- learning.	
The recorded sessions from the conventional program included elements of student engagement, active student-learner interaction, student-student interaction, to mention but a few. However, online	We thank the EEC for the constructive feedback on how we can enhance our online delivery through student-centred and interactive activities.	Μερική Συμμόρφωση

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interactivity should be enhanced further by the use of appropriate technologies (e.g. breakout rooms to allow the students to work in small groups on their own on activities and report back to the plenary) and activities where the lecturer is not always the central focus and peer learning is also facilitated.

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Following the programme's teaching and learning strategy, there are several interactive learning activities embedded in the programme, which can be further enhanced through appropriate technologies. Student collaboration is one of the programme's activities that can be done both, synchronously (e.g. MS-Teams live classroom discussions and breakout rooms, student group meetings, etc.) and asynchronously (e.g. online forums and chat rooms through Blackboard discussion board and closed groups). Through the discussion board, students have the opportunity to introduce themselves, share information and network with each other. They are also able to provide answers on the discussion board to questions posted and the instructor can monitor the discussion boards to provide further feedback. The classroom discussions, breakout rooms, etc. allow students to initiate further discussion on a subject and exchange ideas or contribute with their own perspective on specific topics, in real time. Furthermore, such activities, in a synchronous or asynchronous form, can facilitate peer-feedback peer-review and among the students. Taking into consideration the EEC's feedback further interactive

activities will be embedded in the live lectures through the break-out rooms, to allow students to discuss reflect on certain topics, before sharing their team's views with the rest of their classmates/groups.

Moreover, after the first year of operation, as we do with all our programmes, the programme team will evaluate the delivery of the programme, taking into consideration students' feedback,

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	and update the teaching and	
	learning approach and material as	
	necessary. Student engagement and	
	motivation is always at the centre of	
	the annual monitoring of our	
	programmes.	
Enhancing the practical component	We thank the EEC for the	Μερική Συμμόρφωση
using technologies and applications	constructive feedback on how we	
that support running online labs	can enhance our online lab delivery	
would benefit the students greatly.	through student centred and	
In the example the EEC reviewed	interactive activities. Following the	
this was done in a 'show and tell'	EEC's recommendation, relevant	
format where the lecturer would	adjustments to the material delivery	
present the problem, allow time for	will be made for certain lab	
the students to work on their own	demonstrations and practical	
and then reveal the correct answer.	sessions to include additional group	
A different organisation of the	work and collaborative	
online session (with the use of tools	projects/exercises to promote both	
such as computer simulations)	learning and teamwork. Proper	
would allow greater student input	guidance and structure for group	
and enhancing the student-centred	interactions will be provided by the	
aspect of the interaction.	lecturer ensuring that teams	
	complete specific steps on time and	
	correctly, but at the same time	
	allowing flexibility for different	
	group dynamics. Such group	
	interactions can be accommodated	
	synchronously through MS Teams'	
	break out rooms during the live	
	lectures as well as asynchronously	
	through Blackboard closed groups.	
	Moreover, for certain sessions	
	students will be asked to present	
	their approach to solving a problem,	
	which can then be openly discussed	
	with their classmates under the	
	guidance of the lecturer.	
	Although there are several software	
	that are utilised in the delivery of the	
	programme curriculum (as indicated	
	in the module descriptors and	
	learning guides), the team was not	
	able to identify any existing	
	specialised simulations that can be	
	effectively embedded into the	
	curriculum to aid the learning	
	process. The team will continue	
	monitoring the resources available	
	on an annual basis (during the	
	programme's annual review) and	

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	provided the opportunity it will	
	enhance its delivery accordingly	
	As an alternative the team utilises	
	gamification elements throughout	
	the curriculum along with other	
	interactive learning activities	
Overall assessment is appropriate	We strongly agree with the EEC that	Συμμόρφωση
and all grades must be accompanied	promptly providing feedback to	2044094001
by written feedback that makes it	students and having an active line of	
clear why the specific grade was	communication is crucial for online	
awarded and that supports the	learning It is part of the University's	
students in learning what their	nolicy that teaching staff have	
mistakes were and how they could	regular and effective communication	
he rectified A rigorous process is	with their students and provide	
nooded within online onvironments	timely and offective feedback to	
to make sure the students receive	them	
feedback on time and there is a line		
of communication. This should be	In line with the University's	
standard practice for all courses and	academic regulations (section G	
all forms of homework or	Assessment) individual assessment	
evamination online	feedback to students must be	
examination online.	provided within 15 days and in	
	various formats (e.g. written audio	
	digital format) for distance learning	
	programmes the University	
	developed the "Online Assessment	
	Policy and Electronic Management	
	of Assessment (EMA) – Online	
	Submission Marking and Feedback"	
	to accommodate the diverse needs	
	of distance learning assessments As	
	it is expected a distance learning	
	programme can have a different set	
	of assessment (formative or	
	summative) methods which means	
	that there will be learning activities	
	in which students will receive	
	immediate feedback (e.g. electronic	
	quizzes, multiple choice exercises	
	oral presentations) and others that	
	will require more time for the	
	feedback to be provided (e.g. essays.	
	projects). Thus, according to the type	
	of assessment, students can receive	
	feedback on their performance from	
	0-15 days. It should be noted, that	
	although the University policy refers	
	to the maximum of 15 days (to allow	
	time for moderations of marks), it is	
	a common practice for academics to	

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	provide feedback to the students	
	earlier than this, so that students can	
	review the feedback and reflect on it.	
	until their final mark is provided	
	(within 15 days)	
	(within 15 days).	
	Moreover as it was noted by the	
	FEC over assessment is	
	EEC, every assessment is	
	accompanied by an assessment	
	brief, which provides a description of	
	the assessment, the targeted	
	assessment learning outcomes, the	
	assessment guidelines, and more	
	importantly, the marking criteria	
	(rubric) for the specific assessment.	
	The assessment rubrics are	
	discussed with the students so that	
	they are aware of the expected	
	learning outcomes and how their	
	performance will be assessed. As a	
	result, students can utilise the	
	marking rubrics to self-evaluate	
	themselves so that they are aware of	
	the feedback to be expected.	
Although the description and	The programme's admission criteria	Μερική Συμμόρφωση
organisation of the courses is of	are provided in Section 1 (page 7).	
good quality, we noticed that the	Regarding the connection of	
development of students'	teaching and learning with real-life	
competencies and general learning	challenges and experiences for Data	
experience could vary, given the	Analytics this is implemented	
admission criteria. EEC advises that	through the use of real datasets.	
the university should take the	case studies, exercises provided by	
necessary actions as noted in	partner organisations from multiple	
Section 1 for the review of entry	diverse domains including retail	
requirements and connect the	healthcare. hanking	
teaching and learning with real-life	pharmaceutical. compliance and	
challenges and experiences for Data	regulatory tech, and many others	
Analytics in Business	Moreover, students have the	
	opportunity to collaborate with one	
	of the programme's industry	
	nartners for their thesis project	



3. Teaching staff

(ESG 1.5)

Conclusions and final remarks by EEC	Actions Taken by the Institution	EEC's final recommendations and comments on the HEI's response
The School has recruited academic staff and professional development activities for teaching staff focused on the Teaching and Learning skills will prove impactful in the years to follow on the quality of the teaching and learning in the program and the reputation of the program. The panel would advise as well in the future rounds of recruitment to review the curriculum needs of the program and the research strategy of the School in order to identify candidates with potential to progress within your institution. The university tries to improve the teaching skills of the teaching staff through the compulsory training for the Fellowship of the UK Higher Education Academy. These efforts are appreciated.	We appreciate the EEC's advice on future academic recruitments. As with all of our recruitment efforts, we will ensure that new academic appointments for the programme and the School will be directly aligned to the curriculum needs of the programme as well as the research strategy and future research directions of the School. It is important for us to identify people who can strengthen the research profile of the School and assist the School in achieving its long term goals.	Συμμόρφωση
The EEC recommends having clear documentation in terms of how the research activities of the staff members benefit the curriculum and the teaching and learning activities within this program.	The Research Policy of the University is clear on the importance of research-informed teaching and how research work should connect to teaching. Research informs teaching throughout the curriculum delivery in and out of the classroom as well as through the co- and extra- curricular activities taking place in each School and/or programme or at university-level. Programme curriculum is frequently reviewed and updated according to the latest research findings in the field. Results of externally funded projects, outputs, publications, events (round tables, conferences, trainings, seminars, workshops, surveys), CPD	Συμμόρφωση

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 and public outreach events are embedded directly and/or indirectly in the course of teaching and learning, as learning activities and/or resources. In general, research informed teaching activities include, but are not limited to, the following: Learning material reflecting the latest research findings Discussions of research findings Discussions of research findings, online materials, news items or practical scenarios Library search of specific research questionnaires or surveys (short research sources Design of blogs, short research questionnaires or surveys (short research studies) Discussion of research case studies, arguing and debating Development of arguments on a research position/topic Writing of case studies, essay planning and problem questions Collaborative writing and critique, peer review Group presentations, with or without group representative Diagnostic and formative tasks, mocks Discussion of assignments and proposals Post-it activity to give feedback or titles to discussions 	
 Creation of mind maps and spider graphs to tackle complex problem questions Progressive generic and individual feedback. 	

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	The MSc Data Analytics curriculum	
	is both, research-informed and	
	industry-informed. Academics do a	
	regular research and technology	
	scouting, alongside their own	
	research activities. integrating	
	research and industrial project	
	outcomes into the delivery of the	
	curriculum. As with all our	
	programmes the programme	
	curriculum delivery is undated	
	vearly and on many occasions	
	specific learning material is undated	
	during the academic year to cone	
	with the dynamic nature of the data	
	analytics landscape and relevant	
	research and technological	
	advances	
	auvalices.	
	ruitileiniore, we would like to	
	emphasise that Misc Data Analytics	
	students have the opportunity to	
	conduct applied research in the	
	(thesis) working on model working	
	(thesis), working on real world	
	problems and contributing	
	innovative solutions.	
	We would like to assure the EEC	
	that we greatly value research and	
	industry informed teaching and we	
	will continue working in this	
	will continue working in this	
	the research component in the MCs	
	Data Analytics	
It would be interesting if there were	The University operator a university	Συμμόρφωση
some internal mentoring	wide academic mentoring scheme	Συμμορφωση
machanism through which more	the Research and Innovation &	
experienced professors could guide	Enterprise Mentoring (RIEM)	
and mentor less experienced staff	scheme Through the RIFM scheme	
when they join the university	early career academics are	
the anversity.	narthered with more experienced	
	academic staff (their mentors) who	
	will support and guide them through	
	their early career years.	
	In addition to the University RIEM	
	scneme, UCLan Cyprus academics	
	enjoy further mentoring from	
	colleagues in UCLan UK. We	
	currently have 3 peer groups learly	

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Recently, the master's program has	Although, as noted by the EEC, the	Συμμόρφωση
not had any visiting professors.	conventional programme engaged	
However, the faculty has been	external researchers/academics	
visited by several visiting professors	with the programme delivery as well	
through the Erasmus program, who	as the delivery of seminars and	
have given opening sessions,	workshops (primarily through the	
specialized seminars, etc. from	Erasmus programme), the	
which staff have benefited.	programme team agrees with the	
	EEC that engaging Visiting	
	Professors with the programme can	
	be very beneficial. The programme	
	team will actively pursue this for the	
	next academic years.	



4. Student admission, progression, recognition and certification (ESG 1.4)

EEC Actions Taken by the Institution and comments on the HEI's response	ions and final remarks by EEC	and final remarks by Actions Taken by the Institution	EEC's final recommendations and comments on the HEI's response
The teaching staff (particularly those at early stages of their career) could be supported from the institution with further continuous professional development on e- learning and e-tutoring to enhance their visibility at EU and international level. Moreover, the University participates in the Erasmus- programme, which funds short-term teaching and training mobilities to other partner institutions (EU and international mobilities). Already many of the School's - and the programme's—faculty have taken advantage of this and have participated in such mobilities that contributed to their professional development and the enhancement of their knowledge and skills. Furthermore, in the framework of Erasmus +, the University and the School have welcomed reputable academics from partner Higher Education Institutions who actively participate to the enhancement of the learning experience of our students as well as the teaching methodology of our academic team. Additionally, the School for sponsors training or research visits for each faculty member to organisations and academic institutions abroad.	hing staff (particularly early stages of their career) supported from the n her continuous nal development on e- and e-tutoring to enhance bility at EU and bnal level.	staff (particularly stages of their career) ported from the continuous development on e- e-tutoring to enhance at EU and level.	response Συμμόρφωση Ι

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The panel also recommends the development of a longitudinal 5-10 year plan for the program and monitoring the intake year on year, in order to plan for recruitment activities in EU and abroad and increase the number of applicants of enrolled students over the next years (if the university wishes to grow the registration numbers). Some initiatives could be utilised to help attract the right applicants. Examples of such initiatives include: 1) maintaining the gender balance a modern university should have in place by using the current/alumni female students and female graduates as "ambassadors" for the program and include related videos on the School website 2) having a gender-balanced website and external presence of the university in broader activities (Erasmus+), to the extent that this is possible. To attract larger numbers of students, it may be helpful to review the modules taught with content highly relevant with current data science market needs, and to actively promote and advertise the positive values and high potential of this program to prospective students and relevant stakeholders.	We thank the EEC for the constructive feedback to enhance the programme recruitment and we greatly appreciate the activities suggested by the EEC to assist us in this process. We will communicate this information with the University's Marketing Department and Recruitment & Admissions Department, so that they can enhance their efforts within EU and abroad. The programme team will also work closely with the Marketing Department to identify unique selling points for the programme as well as unique module elements that can be highlighted to attract more students.	Μερική Συμμόρφωση
We recommend greater clarity in the program documentation on how research is linked to teaching, particularly with regards to how students benefit directly from staff involvement in research activities.	SEE OUR EARLIER RESPONSE IN SECTION 3 (pages 15-16).	Συμμόρφωση
Although the application is complete, and the plans of the university are coherent (students' admission, progression, and recognition), the potential difficulties in recruiting new students in a competitive higher	Regarding the programme content, the programme curriculum is industry and research informed. It has been designed based on the latest industry trends and research findings. Of course, the Data Analytics field is continuously	Συμμόρφωση

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education environment needs to be	evolving, and therefore the	
tackled. To attract the right intake	programme team reviews the	
of students, it may be helpful to	curriculum on an annual basis and	
review the courses taught (as	adjusts the delivery material	
advised in Section 1) with content	accordingly, to ensure that it is up to	
highly relevant with the current	date.	
data science for business industry.		
	Furthermore, the programme's	
	material is aligned with the SAS	
	professional material. Following the	
	establishment of a strategic	
	partnership of the programme with	
	SAS Institute S.A., one of the leading	
	analytics providers in the world, the	
	programme proudly offers students	
	the opportunity to receive the SAS	
	Joint Certificate in Business	
	Intelligence and Data Mining, in	
	addition to their MSc award. This	
	unique opportunity offered through	
	the MSc Data Analytics programme,	
	equips students with additional	
	knowledge and skills to apply	
	analytics to real business problems	
	using real business data and	
	provides students with a competitive	
	advantage in the marketplace,	
	through a professional certification	
	which is in high demand by the	
	international market. SAS is	
	recognised for the ninth consecutive	
	year as a Leader in 2022 Gartner	
	Magic Quadrant for Data Science	
	and Machine Learning Platforms.	



5. Learning resources and student support (ESG 1.6)

Conclusions and final remarks by EEC	Actions Taken by the Institution	EEC's final recommendations and comments on the HEI's response
In terms of student support, in addition to the mentor academic support, a potential solution could be a "buddy coder" mentor system for students to reach out to PhD students that have completed this program or alumni.	As the MS Data Analytics DL is a new programme and does not yet have alumni, it will not be possible to currently develop the "buddy coder" mentor system with our alumni. At the same time, we currently do not have any PhD students who completed the programme. Nevertheless, we consider the EEC's recommendation an excellent one and we will implement it in the near future.	Συμμόρφωση
The panel also recommends inclusion of a formal industry advisory Board along with the existing External examiner.	SEE RESPONSE EARLIER IN SECTION 1 (page 3).	Συμμόρφωση
The School has a rigorous process of data collection in terms of reviewing the pipeline and year on year alumni of the students. Attention should be paid to the diversity and gender balance of the program.	SEE RESPONSE EARLIER IN SECTION 1 (pages 7-10).	Συμμόρφωση
The Department should periodically assess (every 2 years) the adequacy and suitability of resources and IT platforms and inform the responsible services of the University for their actions.	The Department reviews its resources, including the IT needs it terms of equipment and software, on an annual basis. Budgeting is handled centrally by the University and specific budget is allocated to the School according to yearly needs. Within the overall yearly budget, there is a specific budget allocated to resources (e.g. human resources, IT resources, Library resources, facilities, etc.) for each School. To this end, resources are reviewed at the School and programme level before the beginning of each academic year and necessary provisions/budgets are requested for the covering of the School's resource needs.	Συμμόρφωση



6. Additional for doctoral programmes (ALL ESG)

Conclusions and final remarks by EEC	Actions Taken by the Institution	EEC's final recommendations and comments on the HEI's response



7. Eligibility (Joint programmes) (ALL ESG)

Conclusions and final remarks by EEC	Actions Taken by the Institution	EEC's final recommendations and comments on the HEI's response



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C. Conclusions and final remarks

The EEC must provide final conclusions and remarks, with emphasis on the correspondence with the EQF.

EEC's final conclusions and remarks

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Conclusions and final remarks by EEC	Actions Taken by the Institution	EEC's final conclusions and remarks
The EEC recommends that within	SEE RESPONSE IN SECTION 1	Μη Συμμόρφωση
their rigorous policy of review of the	(page 3).	
program the external stakeholders		
(i.e. industry representative) to be		
included formally in the process.		
The EEC recommends the review of	SEE RESPONSE IN SECTION 1	Συμμόρφωση
the entry requirements in terms of	(page 7).	
the field of background degree. It is		
clearly presented that the		
conventional program attracts more		
students with Maths/computer		
science background, and it is a very		
the students have a husiness		
background		
The EEC recommends that student	As indicated by the constitution of	Μη Συμμόρφωση
representation is practically ensured	the School Internal Academic	Μη 20μμορφωση
at all meetings of the internal	Standards and Quality Assurance	
quality assurance committee.	Committee (ASOAC) its membership	
	includes student representatives.	
	Specifically, undergraduate (on their	
	3rd year of studies) and	
	postgraduate student	
	representatives. These students are	
	also members of the University	
	ASQAC.	
The EEC recommends that the	The University recently formed its	Συμμόρφωση
number and gender balance of	Equality, Diversion and Inclusion	
admitted students is subject to a	Committee (EDIC) that is responsible	
targeted strategy that needs to be	to form and monitor the University's	
improved and the Athena SWAN	EDI strategy, including the	
Charter in the UK can be of	University's Gender Equality Plan	
assistance with a number of	(GEP).	
recommendations.		
	The UCLan Cyprus EDIC is working	
	closely with the respective UCLan UK	
	EDIC and the Chair of the UCLan	
	Cyprus EDIC is a member of the	

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	UCLan UK EDIC, thus ensuring effective two-way communication related to EDI matters between the two campuses. As indicated by the EEC, UCLan UK is member of Athena SWAN, something that informs its actions and strategy, which in turn, informs and guides the UCLan Cyprus actions and strategy.	
	Gender balance of admitted students per programme and for the University as a whole is one of the key pillars of the University's EDI strategy and GEP plan.	
	Beyond this, the School is very active in its efforts to increase its number of female students and achieve a good gender balance between its students population. Evidence of the School's commitment to gender balance and recruitment of female students in its programmes, is the organisation and hosting of the ACM womENcourage 2022 conference (https://womencourage.acm.org/20 22/), which is an international conference aiming at connecting women from diverse technical disciplines and encouraging them to pursue their education and profession in computing and STEM areas. The University, the School and the programme team are committed to strengthen their efforts towards this cause.	
A similar strategy to the above should be established to attract higher numbers of students in general, if the School plans any growth in this program.	As mentioned earlier in Section 4 (page 18)., we agree with the EEC that a strategy is needed to enhance the programme recruitment and we will work closely with the University's Marketing Department as well as the Recruitment & Admissions Department, so that we can support them to strengthen their marketing and recruitment efforts.	Μερική Συμμόρφωση

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The FFC recommends two different	SEE RESPONSE FARLIER IN SECTION	Συμμόρφωση
routes in terms of the title of the e-	1 (pages 5-7)	
learning program and the content of		
the curriculum depending on what		
the learning outcomes are and what		
the targeted intake of students'		
background is. The following		
changes are recommended based		
on the choice of title of the MSc		
O MSc in Data Analytics: a series of		
changes to the curriculum need to		
take place to ensure that courses		
not related to the learning		
outcomes of the program are		
reduced and the focus is on Data		
Analytics if the program is aimed		
for students who wish to develop a		
career in data analytics. For		
example, in the current curriculum		
the only modules related to DA are:		
CO4761; CO4760; CO4762. The core		
modules expected within an MSc in		
DA should provide core modules for		
the students to demonstrate in		
depth knowledge in computational		
methods, including computer		
programming and scientific		
visualisation. The EEC recommends		
the consideration of the following		
example module titles: Data		
Programming with R; Statistical		
Machine Learning; Data		
Programming with SAS; Data		
Programming with Python;		
Predictive Analytics; Multivariate		
Analysis; Statistical Network		
Analysis; Time Series; Stochastic		
Models; Machine Learning and Al. In		
this case the program would be		
suitable for graduates from ICT		
background and need to develop a		
career in data analytics.		
O MSc in Business Analytics: EEC		
recommends that the title of the		
course should be updated if the aim		
of the course is for the students to		
be provided with a set of analytical		
methods for solving problems to aid		
decision making in Business within		
the context of large quantities of		

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data. In this case the program would be suitable for graduates from different disciplines or applicants with practical experience that would like to redirect their career. Within an MSc in Business Analytics the applicants will be able to apply business analysis tools and apply current research into data science, decision making and management science. O In either MSc title the program director and Teaching and Learning Committee should focus on the in- depth skills in data analytics as a learning outcome for the students enrolled (i.e., Statistical methods; Programming for Analytics; Decision and Behavioural Analytics; Mastering Big Data). Minimum entry requirements in terms of Maths and Statistics for the successful student progression during the program and avoiding withdrawals from an e-learning program.		
The EEC has found the workload of the courses quite low in terms of the corresponding ECTS (10/course currently). The ECC recommends including to each module descriptor how the workload is allocated within each course for activities of 10 ECTS. Based on current descriptions the courses are overestimating the workload for introductory concepts of data analytics and the detailed list of workloads per activity needs to be provided to the course descriptions for students' clarity and expectations.	In line with the ESG and CyQAA guidelines, 1 ECTS is estimated at around 25 learning hours. Therefore, any 10 ECTS module offered under the MSc Data Analytics programme involves a total of 250 learning hours. The workload distribution per module is available in Appendix 1.	Συμμόρφωση
The EEC recommends the review of the course descriptors to reflect on the online delivery of each course and address the pedagogy and the teaching and learning techniques to be used in the different activities.	Following the EEC's recommendation, we have updated the module descriptors and provide them in Appendix 1.	Συμμόρφωση



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The EEC recommends that the collection, analysis, and communication of data such as student statistics by the college is digitised and integrated more closely into the management of the program taking into account students' feedback.	SEE RESPONSE EARLIER IN SECTION 1 (pages 7-10).	Συμμόρφωση
Students will be assigned to mentors, and it is advised a student mentoring scheme that could be addressed through the volunteer work of PhD students.	SEE RESPONSE EARLIER IN SECTION 5 SECTION 1 (page 20).	Συμμόρφωση
After carefully considering all the facts and evidence provided to the committee as part of this evaluation, the committee believes that the curriculum needs revision before being approved, as suggested by the recommendation made above (especially under section 1&2).	SEE RESPONSE EARLIER IN SECTION 1 (pages 5-7).	Μερική Συμμόρφωση



D. Signatures of the EEC

Name	Signature
Eleni Mangina	Eleni Mangina
Edward W. Sun	
Carlos Flavián	1 Her
Stylianos Hatzipanagos	- HDaviaga

Date: 21/10/2022



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