ΦΟΡΕΑΣ ΔΙΑΣΦΑΛΙΣΗΣ ΚΑΙ ΠΙΣΤΟΠΟΙΗΣΗΣ ΤΗΣ ΠΟΙΟΤΗΤΑΣ ΤΗΣ ΑΝΩΤΕΡΗΣ ΕΚΠΑΙΔΕΥΣΗ

CYQAA CYPRUS AGENCY OF QUALITY ASSURANCE AND ACCREDITATION IN HIGHER EDUCATION

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Doc. 300.3.2

Higher Education Institution's Response

(Departmental)

Date: 20.06.2023



- Town: Limassol
- School/Faculty: Geotechnical Sciences and Environmental Management
- Department: Chemical Engineering
- Programme(s) of study under evaluation Name (Duration, ECTS, Cycle)

Programme 1

In Greek:

Προπτυχιακό Πρόγραμμα στη Χημική Μηχανική (4 έτη, 240 ECTS)

In English:

Undergraduate Programme in Chemical Engineering (4 years, 240 ECTS)

Programme 2

In Greek:

Διδακτορικό Πρόγραμμα στη Χημική Μηχανική και Περιβαλλοντική Τεχνολογία (3 έτη, 240 ECTS) In English:

Διδακτορικό Πρόγραμμα στη Χημική Μηχανική και Περιβαλλοντική Τεχνολογία (3 έτη, 240 ECTS)

• Department's Status: Currently Operating

KYΠPIAKH ΔΗΜΟΚΡΑΤΙΑ 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. Guidelines on content and structure of the report

- The Higher Education Institution (HEI) based on the External Evaluation Committee's (EEC's) evaluation report (Doc.300.3.1) must justify whether actions have been taken in improving the quality of the department in each assessment area.
- In particular, under each assessment area, the HEI must respond on, <u>without changing</u> <u>the format of the report</u>:
 - the findings, strengths, areas of improvement and recommendations of the EEC
 - the deficiencies noted under the quality indicators (criteria)
 - the conclusions and final remarks noted by the EEC
- The HEI's response must follow below the EEC's comments, which must be copied from the external evaluation report (Doc. 300.3.1).
- In case of annexes, those should be attached and sent on a separate document.



1. Department's academic profile and orientation

Sub-areas

- 1.1 Mission and strategic planning
- 1.2 Connecting with society
- 1.3 Development processes

Areas of improvement

Q1) Since there has not been enough time to review and continuously improve their original academic design yet, we propose to thoroughly explore mechanisms for obtaining and utilizing data in this area in due course. They will benefit from incorporating feedback from various stakeholders such as students, fresh graduates, employers, and alumni to gain valuable insights and make informed decisions.

Suggestions

- Student Feedback

Create online surveys and suggestion boxes for students to provide input on their academic experience. Organize regular focus group discussions or town hall meetings for open communication.

- Fresh Graduate Surveys

Develop post-graduation surveys to gather insights on program effectiveness and industry readiness. Conduct interviews with recent graduates to gather specific recommendations.

- Employer Feedback

Establish partnerships with hiring companies and conduct employer satisfaction surveys.

- Alumni Involvement

Collaborate and develop its alumni association and professional network to gather feedback on long-term career success and industry trends. Similar bodies may be useful for endowments and donations.

Actions Taken by the Institution

AN1) The comment raised by the EEC during the meeting is fully aligned with the objectives of the Department of Chemical Engineering (DCE). Cyprus University of Technology (CUT) provides an online link for all students to complete an obligatory evaluation questionnaire in Greek. The specific questionnaire is requested to be completed for each module every semester and it takes into account the performance of teaching staff among other aspects associated to the academic experience of students. Moreover, based on the comment raised by the committee, DCE will provide questionnaires to fresh graduates aiming to gather specific recommendations and suggestions based on their work experience, and how the knowledge and expertise they obtained in DCE as undergraduate students assisted their career in Industry and/or Academia.

Moreover, even though DCE is newly established, an alumni record has already been established where only a few graduates are currently members. However, DCE will continue to keep an alumnus record which is expected to grow over the next years. Furthermore, DCE provides awards for the best performing students every year where the local industry (petrochemical, pharmaceutical, food, etc) act as sponsors. Graduates are always invited to participate and share their experiences with young students in these events strengthening the discussion and providing valuable feedback. Finally, upon completion of practical training every year, participating companies must provide feedback regarding their assessment for the student hosted and the practical training programme as a whole. However, the suggestion to ask for feedback from companies hiring our graduates is certainly novel and we aim to work towards this direction.



Q2) In order to prepare a strategic plan for the sustainable aspects of the urban, rural and local environments the department could ask the department students to prepare a related stakeholder mapping for the Limassol region and decide on the tools to engage with the stakeholders and their groups (CUT academic society, local communities, unemployed persons, biodiversity stakeholders, NGOs, Startups, etc). In that way students will be familiar with the sustainability indicators (financial, social and environmental) that are useful for their city and be competent on preparing social and environmental impact assessment.

Actions Taken by the Institution

AN2) Limassol has been selected as one of the 100 EU Net Zero Cities project aiming to reduce greenhouse gas emissions through climate action, with the ambitious target of achieving "climate neutrality" by 2030. DCE (Dr Vyrides, Dr Vasquez) participates in the specific EU project leading the "Circular Economy" mission, while organizing several networking and training events with relevant stakeholders (public, industrial, NGO's, etc) aiming to identify optimal solutions relevant to the strategic plan that Limassol should implement towards achieving the sustainable aspects required. Thus, the faculty members involved will formally include department students in the events organized to propose sustainable solutions that will shape the strategic plan required to meet the sustainability objectives of Limassol.



2. Quality Assurance

Sub-areas

- 2.1 System and quality assurance strategy
- 2.2 Quality assurance for the programmes of study

Suggestions

- The course descriptions can benefit from a program level top-down review to minimize repetitions of contents among different courses and accommodate more useful and relevant topics such as application of computers, programming and industrially- useful software tools, computer-aided design, artificial development and machine learning, engineering thermodynamics, sustainability, safety and ethics throughout the program from the first to last years (2.1.4).

- The Department can benefit from promoting to its staff and students the four steps of quality culture i.e. on using plan-do-check-act (PDCA cycle) for lifelong improvements (2.1.5).

Areas of improvement

Q1) Incorporate feedback from students, industry professionals, and external subject experts into periodic course and program reviews (annually or bi-annually) to ensure continuous improvement of curriculum content, delivery, and assessment.

Actions Taken by the Institution

AN1) DCE has established the Departmental Undergraduate Studies Committee (USC), which oversees handling of various tasks related to Undergraduate studies and the curriculum. Some of their actions include:

- To receive feedback from the students and the industry professionals every year,
- To discuss the feedback with the Department and act accordingly,
- If needed, to prepare reports and present them in the Departmental meetings regarding the modules that need improvement, modules with high failure rates, students with high failure rates and anything else that has been brought to the committee for discussion.

Thus, the programme is revised constantly by the USC, which is responsible for constantly monitoring the programme and seek feedback from students and professionals, taking action to propose solutions when problems arise as well as to inform the Departmental Board about cases that cannot be independently solved by USC.

Q2) Integrate emerging topics such as sustainability, ethics, artificial intelligence, machine learning, and computer-aided design into relevant courses, while eliminating unnecessary repetitions through regular course updates.

Actions Taken by the Institution

AN2) We would like to thank the EEC for the specific comment, which is fully aligned with the objectives of the Department. Thus, we have decided to apply the following actions:

Aiming to introduce students to Aspen Hysys simulations prior teaching of CEN 311, based on a point raised by the EEC during the meeting with the teaching staff on May 26th 2023, a few simple simulations in the Unit operations courses (CEN 209 "Unit Operations I" and CEN 327 "Unit Operations II") as well as CEN 307 "Chemical Reactor Design and Installation" will be included.



For example, during an additional tutorial of CEN 209 students could be instructed on the use of simple modules of Hysys and perform the simulation of a pump and a heat exchanger operation to meet specific conditions (e.g. calculation of the cold fluid flow rate to reach a prespecified exit temperature of the hot fluid).

Similarly, during CEN 327 students could simulate the distillation process of a multi-component mixture and of an adsorption column, while in CEN 307 the non-isothermal operation of chemical reactors (which usually cannot be solved analytically) could be simulated.

In the same courses (CEN 209, CEN 307 and CEN 327), it has been clarified that the project given to students is computational using Matlab and performed in groups. The revised descriptions of the aforementioned courses are also provided in Annex I.

Moreover, specific repetitions have been identified and potential amendments have been presented in our answer AN3 in Sec. 1 of the Programmatic response.

Sustainability aspects are covered in several courses (e.g. CEN 401 "Biochemical Engineering – Production of Biotechnological Products", CEN 325 "Solid Waste Management Technology and Mechanics", CEN 321 "Wastewater and Liquid Waste Treatment Technologies"). DCE plans to further enhance teaching of sustainability aspects in several modules offered. However, artificial intelligence and machine learning comprise topics not currently included in the curriculum. Given that specialized teaching staff is required to teach the proposed material, DCE will implement this suggestion in taught courses upon hiring of faculty members capable of supporting teaching of artificial intelligence and machine learning.

Q3) Foster a culture of quality, safety, and sustainability within the department by setting a positive example, providing training opportunities, and recognizing and rewarding good practices in teaching and learning.

Actions Taken by the Institution

AN3) Aiming to foster a culture of quality, safety and sustainability within the students of DCE, a few courses such as CEN 311 "Industrial Process Design using Aspen Hysys" and CEN 406 "Processes Design and Control", have been supplemented with topics related to safety and sustainability. In addition, given that the curriculum includes a range of obligatory laboratory courses distributed among all years of study, the introductory lecture of all courses includes safety induction relevant to the topic of each course demonstrating that safety training occurs as part of different courses for both the undergraduate and graduate students of the Department. Moreover, at the end of each spring semester undergraduate students expected to start their final year project go through safety training and have to pass an exam relevant to Health and Safety issues. The same training and exam are also compulsory to be completed by all first year PhD students. In addition, a new permanent technical staff is expected to be appointed to DCE in September 2023 holding responsibility for implementation of good practices in the laboratory premises of the Department among other duties.

The Department every year secures funding from the industry to give awards to the best performing students of all years of study, as well as the best performing student of the PhD programme. The number of awards given has substantially increased over the past 2 years and DCE will continue current efforts to further strengthen the available funding for the industry to provide more awards fostering a culture of quality and recognition in the learning process.

Q4) Facilitate the sharing of effective teaching practices through formal and informal forums, such as staff teaching networks.



AN4) The Department of Chemical Engineering (DCE) has implemented several strategies and will implement even more if necessary to enhance the learning experiences of its undergraduate students. The following points outline the initiatives and resources offered by the Department and the University:

Through the Learning Development Network (LDN) of CUT, teaching staff is offered a series of seminars designed to provide training relevant to the implementation of effective teaching practices. Moreover, the specific seminars provided bring together teaching staff from different faculties/departments, thus serving as a staff teaching network. The Department will promote these seminars to its teaching staff aiming to support the adoption of best practices in teaching.

Additionally, both teaching staff as well as undergraduate and graduate students can participate in several courses offered by LDN, which aims to design and implement seminars and workshops based on innovative teaching practices, promote the exchange of good teaching practices, contribute to the long-term educational policy of the University, provide continuous support for academic practice, and coordinate and operate new, creative learning spaces at the University (https://ldn.cut.ac.cy/). DCE should specify the minimum number of courses offered by LDN that students should attend per year.

The LDN of CUT organizes online and in-place seminars and summer schools in English for students from the 8 Universities participating in the alliance of the European University of Technology (EUt+) (https://www.univ-tech.eu/). The programmes offered by LDN include lectures, discussions, exercises and networking activities delivered in English among others.

<u>Remarks</u>

There is limited student diversity due to programs being entirely run in Greek, hindering non-Greek speaking students to participate

Actions Taken by the Institution

Recent modifications to the law of Public Universities allows undergraduate programs to include up to 5 courses taught solely in English. The following courses are currently taught in English: CEN 311 "Industrial Process Design using Aspen Hysys" and CEN 427 "Renewable Energy Sources". Two more courses will be additionally offered in English within the next few semesters: CEN 209 "Unit Operations I" and CEN 332 "Management of Solid Fuels".



3. Administration

<u>Remarks</u>

While the staff and students benefits from a few EU wide exchanges, the internationalization agenda of the Department can be enhanced by introducing more courses taught in English (3.11)

Areas of improvement and recommendations

Q1) The department heavily relies on the university's administrative support, with only one administrative support staff member at the department. Limited technical staff, with only one technician supporting several labs, may impact the department's operations and future ambitions.

Actions Taken by the Institution

AN1) DCE fully agrees with the comment made by the committee. However, University regulations define that only one administrative support staff is currently appointed per Department. One (1) permanent technical staff is expected to start her/his duties in September, 2023. This new member of administrative staff will be in charge for all the laboratory – teaching and research – premises of the Department.

Q2) Expanding safety provisions, especially in relation to venting systems, the provision of personal protective equipment, and safety training, would benefit the department and ensure a safer working environment.

Actions Taken by the Institution

AN2) The University is in charge of the implementation of safety regulations applicable to all University premises including laboratories. Regarding the provision of personal protective equipment, all students are obliged to wear and use personal protective equipment during laboratory courses. Safety induction training takes place for all undergraduate and postgraduate students of the Department. Specifically, at the end of each spring semester undergraduate students expected to start their final year project go through safety training and have to pass an exam relevant to Health and Safety issues. The same training and exam are also compulsory to be completed by all first year PhD students.

Also, regarding process and lab safety issues, such topics are always covered during the introductory lecture of every laboratory course. The Department has also decided to include such a topic in the introductory course CEN 100 "Professional Skills for Chemical Engineers" of the first semester of the degree (see Annex I for the revised description).



4. Learning and Teaching

Sub-areas

4.1 Planning the programmes of study 4.2 Organisation of teaching

<u>Remarks</u>

The cycle of design/review is not complete yet due to the recent transition of the department (4.1.1). The department, being relatively new, can benefit from enhancing stakeholder engagement in the academic review process over time (4.1.2).

The programs of study follow all requirements in the professional courses, however they can benefit by enhancing the elements of teaching and learning in Chemical Engineering Design, Safety, Sustainability, and Ethics, and Teamwork (4.1.4)

The theory and practice could be enhanced by adding more local content in the content taught. Regarding health and safety in each course it would be useful to expand it to HSSE (Health, Safety, Security and Environment) so that students learn how to do risk assessment, personal protection material etc.) (4.1.5).

In enhancing of practical skills and prepare young graduates to become good practitioners, the Department may include a presentation by CYS (Cyprus Standardization Company) to be familiar with the International Systems and Standards

Areas of improvement and recommendations

Q1) It is advised to integrate students better. There seems not to be much consciousness among students about representation and how to exert influence on programs.

Actions Taken by the Institution

AN1) Students have three (3) representatives that participate in each Departmental Board meeting and they can bring to the Department any topic that is rising questions among them relevant to the programmes offered and their studies. All students have the right to vote for their representatives every two years. Based on the comment of the committee, the Department has decided to suggest to the representatives to meet all undergraduate students once per year – preferably in the beginning of each academic year, where they can discuss, and exchange ideas and concerns.

Q2) On the teaching part, it is recommended to develop access to practical experiences with larger scale processing equipment. Internships may help with this, but then internships must not reduce to analytical work only. Furthermore, it is recommended to make the students familiar with computational tools throughout their course-work.

Actions Taken by the Institution

AN2) Currently, students participate in one (1) laboratory practical exercise at the IESC Innovating Environmental Solutions Center Ltd (http://www.iesc-ltd.com/) which is located at Ypsonas in Limassol as



part of the laboratory exercises included in CEN 302 "Chemical Technology Laboratory". The Department has decided to add one (1) more laboratory practical exercise conducted at the local industry.

Aiming to familiarize students with computational tools throughout their course-work, DCE will include a few simple simulations in the Unit operations courses (CEN 209 "Unit Operations I" and CEN 327 "Unit Operations II") as well as CEN 307 "Chemical Reactor Design and Installation". For example, during an additional tutorial of CEN 209 students could be instructed on the use of simple modules of Hysys and perform the simulation of a pump and a heat exchanger operation to meet specific conditions (e.g. calculation of the cold fluid flow rate to reach a prespecified exit temperature of the hot fluid). Similarly, during CEN 327 students could simulate the distillation process of a multi-component mixture and of an adsorption column, while in CEN 307 the non-isothermal operation of chemical reactors (which usually cannot be solved analytically) could be simulated. In the same courses (CEN 209, CEN 307 and CEN 327), it has been clarified that the project given to students is computational using Matlab and performed in groups. The revised descriptions of the aforementioned courses are also provided in Annex I.

Q3) It would be good to organize an Annual Career Day for Chemical Engineer Students were students could learn more about:

a) The Legislation that relates to Chemical Engineering profession and especially how to apply for a professional license to ETEK (Scientific and Technical Chamber)

b) The modern working environments of Chemical Engineering (industrial, process, teaching,

laboratory, research, consulting, energy, food, environment, climate, bioengineering, sustainability) c) The major Cyprus industries and their products /services

d) The adaptation of Chemical Engineering to flexible work and flexible teams (online, in place, remote).

e) The Industrial Policy of Cyprus and the key role of Chemical Engineering in onshore and offshore environment.

f) The design and production of Sustainable Chemical Engineering Products and Services

g) The standardisation and certification of Chemical Engineering Services and the key role in the innovation agenda of Cyprus

Actions Taken by the Institution

AN3) CUT is organizing a Career Day event annually where all students are invited to meet personnel from the local industry. Members of the Department are also participating, while the students are also encouraged to participate and meet professionals from the industry. In addition, on the 17^{th} of November, 2022, DCE organized an event, entitled "The role of Chemical Engineering and the challenges of today" (in Greek: O pó λ o ζ του/ τη ζ Χημικού Μηχανικού στα θέματα και τις προκ λ ήσεις του σήμερα). Invited speakers comprised thriving Chemical Engineers in Cyprus, such as Dr Kassianides, Dr Kyprianidou-Leontidou and Mr Xydas covering several of the topics stated above. Please see the event's invitation presented below. The Department is fully aligned with EEC that such events are extremely useful for Chemical Engineering students. Thus, similar events will be additionally organized in the future.



5. Teaching Staff

Remarks

There is a recognized need for expanding the staff with core chemical engineering background - advertisements are underway (5.1).

The reliance on the special teaching staff should be gradually shifted to the permanent teaching staff at assistant professor or higher levels. The special teaching staff should be provided better career path into becoming assistant professor (and higher) (5.5-5.6).

Areas of improvement and recommendations

Q1) Need more staff with core-chemical engineering as part of their basic training. As mentioned, this is recognized by the department, and appropriate steps are planned. We believe a higher ratio of permanent staff is desired (5.5 + 5.6).



Actions Taken by the Institution

AN1) DCE agrees with the committee that it is essential to employ more faculty members with a first degree in Chemical Engineering. The specific requirement is part of the Strategic Plan of DCE. Towards this direction, DCE expects that two (2) more faculty members will be added in early 2024 and three (3) more by the end of 2025 based on running and planned hiring procedures.

Q2) It would be good to provide faster career tracks for the special teaching staff (< 8 years) towards achieving permanent status. Encouragement of lecturers interested in developing teaching capabilities is important.

Actions Taken by the Institution

AN2) DCE agrees with the committee relevant to the importance of supporting the career path of special teaching staff (STS) to become permanent staff. The Department supports the development of independent research by STS, given that they receive Departmental funds for purchasing of consumables, they are allowed to use common lab spaces and equipment for their research as well as to supervise undergraduate and Master's Thesis. Moreover, CUT provides a fund to support presentation of research results in conferences by STS. Based on the comment of the EEC, it has been confirmed that the University gives the opportunity to all teaching staff to participate in Seminars to improve their teaching skills, while targeting personal improvement. Therefore, although relevant actions have been in place by the Department to sustain the research activities of STS, their career path towards a permanent status should indeed be faster. However, we would like to point out that there are specific constraints associated to STS (e.g. limited to mainly teaching responsibilities, STS election process) that would require significant changes of regulations by the University and the Government to accelerate their career path.



6. Research

Remarks

The department would benefit from more space dedicated to research (and teaching) equipment. Donations from alumni or other sources can be encouraged (6.3).

One of the major priorities of the library was to design and develop the first Institutional Repository in Cyprus, named 'KTISIS' (http://ktisis.cut.ac.cy/). KTISIS is an open access digital repository that collects all digital content related to the various activities of the CUT (6.4).

Areas of improvement and recommendations

Q1) As recognized by the department (in the application), there are several expenses associated with owning equipment. Financial resources for purchasing and operating equipment needs to be considered over the full life cycle of given equipment.

Actions Taken by the Institution

AN1) The University provides 50,000 euro to each Department per academic year for the purchase of new equipment. Moreover, there is additional funding (30,000 euro per year) for maintenance of existing equipment, the majority of which is more than 10 years old and expensive to maintain. The Department is constantly asking for an increase in the budgeted amounts given for new equipment and maintenance, but the specific decision has to be taken by the higher administrative bodies of CUT.



7. Resources

Remarks:

Q1) There is a need for the additional recruitment of permanent technical staff for laboratories (7.1).

Actions Taken by the Institution

AN1) A permanent technical staff for laboratories will be available from September 2023 and this person will be responsible for supporting all laboratory premises of the Department, namely, teaching and research labs.

Q2) We are not aware of any donations received. Nevertheless, there exists a mechanism to utilize profits and donations if they exist (7.3).

Actions Taken by the Institution

AN2) The only donations that DCE receives comprise the awards for the academic accomplishments of students at the end of each academic year given by local industries. The last award ceremony took place on the 26th of June 2023 where 7 students received awards from 8 different companies. Moreover, the top three (3) incoming students will also receive awards for their performance in the national examinations required for admission to the Department in Autumn 2023 as part of the welcome event for first year students. The number of awards as well as the total amount that the Department secures every year has been constantly increasing over the past few years. DCE will focus in increasing the profits from donations received targeting the donation of specialized equipment from private funds to support teaching and research.

Q3) There are elements of periodic reviews of facilities within the laboratories to check electrical safety, etc. However, we could not assess this aspect any further (7.7).

Actions Taken by the Institution

AN3) The Health and Safety committee of the University keeps records for all buildings that belong to CUT including those occupied by DCE (offices, as well as teaching and research laboratories). Specialists from either the Department of Electrical and Mechanical Services of Cyprus or private companies established in Cyprus are assigned by CUT to check and monitor electrical safety progress as well as to prepare a detailed report with suggestions for improvement. Apart from CUT, the owner of private buildings rented by CUT is also responsible to apply part of the suggestions mentioned in the report in collaboration with CUT when necessary.



B. Conclusions and final remarks

- Areas of improvement would be the incorporation of feedback from students, industry professionals, and external subject experts into periodic course and program reviews to ensure continuous improvement of curriculum content. Additional actions may include the integration of emerging topics such as sustainability, ethics, artificial intelligence, machine learning, and computer-aided design into relevant courses, while eliminating unnecessary repetitions through regular course updates.
- 2) The department heavily relies on the university's administrative support, with only one administrative support staff member at the department. Limited technical staff, with only one technician supporting several labs, may impact the department's operations and future ambitions. Expanding safety provisions, especially in relation to venting systems, the provision of personal protective equipment, and safety training, would benefit the department and ensure a safer working environment.
- 3) On the teaching part, it is recommended to develop access to practical experiences with larger scale processing equipment. Furthermore, it is recommended to make the students familiar with computational tools throughout their course work and consider organizing an Annual Career Day for Chemical Engineer Students.

Actions Taken by the Institution

AN1) In a nutshell, DCE has established a Departmental Undergraduate Studies Committee, which oversees handling of various tasks related to Undergraduate studies and the curriculum. Suggested topics such as sustainability, and computer-aided design will be introduced into relevant courses by the aforementioned committee, while eliminating unnecessary repetitions through regular course updates as described above in detail. The Department incorporates safety and sustainability aspects in different modules (please see our responses in section 2 above). Moreover, DCE has established strong links with the LDN of CUT, and the European University of Technology (EUt+) in which the staff can share effective teaching practices.

AN2) DCE fully agrees with the comment made by the committee. However, University regulations define that only one (1) administrative support staff is currently appointed per Department. One (1) permanent technical staff is expected to start her/his duties in September, 2023. This new member of administrative staff will be in charge for all the laboratory – teaching and research – premises of the Department.

The University is in charge for the implementation of safety regulations applicable to all University premises including laboratories. Regarding the provision of personal protective equipment, all students are obliged to wear and use personal protective equipment during laboratory courses, while thorough safety induction training takes place for all undergraduate and postgraduate students of the Department. Also, regarding process and lab safety issues, such topics are always covered during the introductory lecture of every laboratory course. The Department has also decided to include such a topic in the introductory course CEN 100 "Professional Skills for Chemical Engineers" of the first semester of the degree (see Annex I for the revised description).



AN3) DCE intends to add more laboratory exercises that use large-scale processing equipment in CEN 302. Moreover, although an Annual Career Day is organized by the University, we also intend to organize an Annual Career Day for Chemical Engineering students based on the comment of the committee.



C. Higher Education Institution academic representatives

Name	Position	Signature
Michalis Koutinas	Department Chair	Mar
Alexandros Charalambides	Program Coordinator	
Ioannis Vyrides	Postgraduate Studies Committee	EATVIDES
Pavlos Stephanou	Undergraduate Studies Committee	Παύλος Στεφάνου Αχιλλίας
Achilleas Konstantinou	Undergraduate Studies Committee	Κωνσταντίνου
FullName	Position	

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