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SECOND ISSUE

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DECISIONS

No 122958

A) Approval of the amendment of the decision no. 2066/8.3.2021 to establish the Interdepartmental Master of Science (MSc) of the Departments of i) Electrical and Electronic Engineering and Industrial Design and Production Engineering of the Faculty of Engineering of the University of West Attica, entitled "MSc in Artificial Intelligence and Deep Learning".

B) Approval of Modification of the Rules of Studies of the Interdepartmental Master of Science (MSc) Program of the Departments of of i) Electrical and Electronic Engineering and Industrial Design and Production Engineering of the Faculty of Engineering of the University of West Attica, entitled "MSc in Artificial Intelligence and Deep Learning".

THE SENATE OF THE UNIVERSITY OF WEST ATTICA

Having regard to:

1. The provisions of Law No. 4521/2018 "Establishment of University of West Attica" (A' 38).
2. The provisions of Law No. 4610/2019 "Synergies between Universities and Technical Universities, access to higher education, experimental schools, General State Archives and other provisions" (A' 70).
3. The provisions of Law no. 4957/2022 'New horizons for Higher Educational Institutions: Strengthening the Quality, Functionality and Connection of Higher Education Institutions and their Linkage with Society and Other Provisions" (A' 141).
4. The Internal Regulations of the University of West Attica (B' 4621/2020).
5. The Standard Rules of Studies of the MSc of the University of West Attica (B' 4861/2023).
6. Circular 135557/Z1/1-11-2022 of the Ministry of Education, Research and Religious Affairs on the "Application of the provisions of Law No. 4957/2022 "New Horizons in Higher Education Institutions: Strengthening the Quality, Functionality and Connection of Higher Education Institutions with Society and other provisions" for the organization and operation of postgraduate programmes and other issues".
7. The decision of the Deputy Minister of Education and Religious Affairs, under reference 108990/Z1/08-09-2022, regarding "Regulation of the issues related to the procedure of free attendance in a Postgraduate Studies Programme with tuition fees" (B' 4899).
8. The joint decision of the Ministers of Education and Religious Affairs and State, under reference 18137/Z1/16.2.2023, concerning: "Determination of the conditions and procedure for the organization of Postgraduate Studies Programmes with distance learning methods in Higher Educational Institutions (B' 1079).
9. The Ascertainment act no. 46969/12-05-2023 of the Vice Rector for Research and Lifelong Education of the University of West Attica "Election of the Rector of the University of West Attica".
10. The Ascertainment act of the Rector of the University of West Attica, No. 77275/1.9.2023 "Appointment of Vice Rectors, their areas of responsibility, allocation of responsibilities and the order of replacement of the Rector of the University of West Attica", as well as the amendment of the act of the Rector of the University of West Attica, No. 94297/12.10.2023.
11. The decision of the Rector of the University of West Attica with No 124685/22.12.2022 titled "Establishment of the Postgraduate Studies Committee of the University of West Attica", as well as the decision No . 86982/28.9.2023
12. The act of the Rector of the University of West Attica (No. 80818/12.9.2023) "Constituting the Senate of the University of West Attica".
13. The Rector's act no. 97386/19.10.2023 "Reconstitution of the Senate of the University of West Attica".

14. The decision with No. 2066/08-03-2021 of the Senate of the University of West Attica "Establishment of an Interdepartmental MSc entitled "Artificial Intelligence and Deep Learning" of the Departments of Electrical and Electronic Engineering and Industrial Design and Production Engineering of the Faculty of Engineering of the University of West Attica" (B' 1104).
15. The decision No. 27585/24-03-2021 of the Senate of the University of West Attica "Regulation of Studies of the Interdepartmental Postgraduate Programme of Studies entitled "Artificial Intelligence and Deep Learning" of the Departments of Electrical and Electronic Engineering and Industrial Design and Production Engineering of the Faculty of Engineering of the University of West Attica" (B' 1387).
16. The act no. 11/05-12-2023 (issue 1o) of the Curriculum Committee as renamed according to the Law with Number 4957/2022, the Special Interdepartmental Committee of the Interdepartmental Postgraduate Program of Studies between the Departments of Electrical and Electronic Engineering and Industrial Design and Production Engineering of the Faculty of Engineering of the University of West Attica "Modification of the Official Gazette of Establishment and Approval of the New Rules of Studies for the International Study Programmes".
17. The excerpt of the minutes of the Postgraduate Studies Committee no. 8/7-12-2023 (issue 5) "Recommendation for the amendment of the decision no. 2066/08.03. 2021 of the Senate of the University of West Attica "Establishment of an Interdepartmental Postgraduate Programme of Studies entitled "Artificial Intelligence and Deep Learning" of the Departments of Electrical and Electronic Engineering and Industrial Design and Production Engineering of the Faculty of Engineering of the University of West Attica" (B' 1104) and the decision of the Senate of the University of West Attica "Establishment of an Interdepartmental Postgraduate Programme of Studies entitled "Artificial Intelligence and Deep Learning" of the Departments of Electrical and Electronic Engineering and Industrial Design and Production Engineering of the Faculty of Engineering of the University of West Attica" (B' 1104) and the decision of the Senate of the University of West Attica No. 27585/ 24.03.2021 decision of the Senate of the University of West Attica "Regulation of Studies of the Interdepartmental Postgraduate Programme of Studies entitled "Artificial Intelligence and Deep Learning" of the Departments of Electrical and Electronic Engineering and Industrial Design and Production Engineering of the Faculty of Engineering of the University of West Attica" (B' 1387).
18. The decision no. 112775/20-11-2023 (issue 28th) of the Senate of the University of West Attica "Approval of Amendment:
 - a. of the decision of the Senate of the University of West Attica, No. 2066/8-03-2021, regarding the Approval of "Establishment of an Interdepartmental Postgraduate Program of Studies with the title "Artificial Intelligence and Deep Learning" of the Departments of Electrical and Electronic Engineering and Industrial Design and Production Engineering of the Faculty of Engineering of the University of West Attica (B' 1104) and
 - b. the decision of the Senate of the University of West Attica, No. 27585/24-03-2021, regarding the Approval of the "Regulation of Studies of the Interdepartmental master of science entitled "Artificial Intelligence and Deep Learning" of the Departments of Electrical and Electronic Engineering and Industrial Design and Production Engineering of the Faculty of Engineering of the University of West Attica" (B'1387).
19. The fact that the present decision does not entail any expenditure to the state budget,

decides:

- A. **the approval of the amendment of the decision of the Interdepartmental Master of Science (IMSc) of the Departments of Electrical and Electronic Engineering and Industrial Design and Production Engineering of the Faculty of Engineering of the University of West Attica, entitled "Artificial Intelligence and Deep Learning", as follows:**

Article 1

General Provisions

The Departments of Electrical and Electronic Engineering and Industrial Design and Production Engineering of the School of Engineering of the University of West Attica establish, according to the provisions of the legislation, and operate from the Spring Semester of the Academic Year 2020-2021 a joint Interdepartmental

Master of Science with a Greek title: "Artificial Intelligence and Deep Learning" and English title: "Artificial Intelligence and Deep Learning".

The administrative and secretarial support of the MSc is provided by the MSc Secretariat, which is staffed by administrative staff of the University of West Attica (UNIWA) and a temporary employee. The coordination of the operation of the MSc is undertaken by the Curriculum Committee of the MSc, in accordance with the provisions of the applicable legislation, the Special Cooperation Protocol and the MSc Studies Regulations.

Article 2

Subject matter - Purpose - Learning outcomes

Outcomes

The scope of the MSc is 'Artificial Intelligence and Deep Learning'. The MSc aims to:

- To promote scientific knowledge and technology in the broader field of the subject matter of the MSc. In this direction, the MSc emphasizes the promotion of research and development of innovative algorithms, processes and systems that improve the production of goods and services, taking into account the development needs of the country and in the light of the latest concepts of sustainable and human-centered development, environmental protection, bioethics and equal access.
- The training of scientists capable of contributing to the research, development, production, transfer and application of the specialised knowledge and skills needed by today's knowledge society in the scientific field of artificial intelligence and deep learning. In particular, the mission of the MSc is to train graduates (Graduates - Diploma holders) of Higher Education (preferably in technology, science and economics) in the development of modern electronic and automation systems and solutions, in the design and development of effective information systems for service delivery and decision making, using the methods and practice of artificial intelligence and deep learning technologies. By extension, the training provided by the MSc aims, through the design and development of the above systems and solutions to provide the necessary skills that will enable graduates to work (indicatively and not exclusively) in areas such as the design of complex approaches to the management of operational and environmental resources, total quality management, measurement, distribution of goods and services and e-commerce in the light of relevant legislation, the application of scientific ethics and ethics and the promotion of the vital aspects of environmental protection, sustainable development and bioethics.
- Training in research methods and documentation of research results, support of the research activity of the University of West Attica community and publication of research results in international conferences and scientific journals.
- To collaborate with research groups in academia and the wider research community, with the aim of promoting innovation and the transformation of research results into services and products that promote quality of life, safety and the protection of the environment and cultural heritage.
- To identify the needs of society, with emphasis on the needs of the citizen, the environment, culture and cooperation with institutions and organisations, with the ultimate aim of identifying and providing proposals and solutions to improve living standards, sustainable development and respect for the environment and human values.
- Continuous contact and cooperation with business and industry, aiming at collaboration with pioneering businesses and private sector initiatives, with the aim of linking the theoretical and practical knowledge provided by the MSc.

Upon completion of the Programme, students will be able to:

- Design and analyse solutions that use artificial intelligence mechanisms and deep learning algorithms to meet the needs of different sectors of society, economy and market.
- Promote the science of AI and deep learning by developing new techniques, algorithms and tools that facilitate the implementation and development of new solutions, focusing on user requirements.
- Understand and evaluate the implementation of AI and deep learning solutions on different platforms and computing environments;
- Propose and develop integrated solutions in various sectors important for the country's economy, such as citizen services, health, agriculture and livestock, and communications and data security, using AI and deep learning algorithms.

- Work alone or collaborate in teams on design, programming and development of innovative solutions, using AI technological tools, both in terms of software and hardware, making full use of available cutting-edge technology solutions, and combining them with innovative approaches and proposals.

Article 3

Postgraduate degree

The MSc leads to the award of the Diploma of Postgraduate Studies (MSc degree) "Artificial Intelligence and Deep Learning" (in Greek "Τεχνητή Νοημοσύνη και Βαθειά Μάθηση ") after the full and successful completion of the studies based on the curriculum. Especially for students who will choose all three courses of one of the two specialisations, the title will also indicate the corresponding specialisation. "Autonomous Systems" (in Greek "Αυτόνομα συστήματα ") or "Cognitive Systems" (in Greek "Γνωσιακά συστήματα"). Otherwise no specialisation will be indicated.

The title is awarded by the University of West Attica with reference to the names of the two collaborating Departments.

Article 4

Categories of Graduates and Number of Admission

Graduates of Higher Education Institutions of the domestic territory or of similar Institutions of foreign countries are admitted to the MSc "Artificial Intelligence and Deep Learning", according to the provisions of the applicable legislation.

Scholarship holders and members of the categories of Specialised Scientific Personnel, Specialised Teaching Personnel and Specialised Technical Personnel (and administrative staff if decided by the Board) are admitted as supernumerary scholars and only one per year, without tuition fees, according to the provisions of the legislation.

The MSc "Artificial Intelligence and Deep Learning" will admit a maximum of sixty (60) students and a minimum of ten (10) students per academic year. The exact number will be specified in the annual call for expressions of interest.

Article 5

Method of admission

Students will be selected in accordance with the applicable legislation and the provisions of the Regulations for Postgraduate Studies.

Every academic year and during the spring semester, by decision of the Curriculum Committee of the MSc (CC of the MSc), a notice for the admission of postgraduate students to the MSc is published and posted on the websites of the Collaborating Departments. The relevant applications together with the necessary supporting documents are submitted to the Secretariat of the MSc, within a deadline set in the announcement and may be extended by decision of the CC of the MSc, while there is the possibility of repeating the announcement during the winter semester, again after a decision of the CC of the MSc.

Article 6

Duration of Studies - Language of Instruction - Credit Units

The duration of study in the MSc leading to the award of the Diploma of Postgraduate Studies (MSc) is set at three (3) academic semesters, each of thirteen (13) weeks of teaching. The compulsory courses of each semester are not less than 39 teaching hours (Article 64 of Law 4957/2022), which includes the time for the preparation of the postgraduate thesis.

The maximum time allowed for the completion of studies (maximum normal duration of studies) is set at five (5) academic semesters, following a reasoned application by the student and approval by the CC of the MSc. After the maximum period of study has been completed, subject to the following paragraphs, the Coordination Committee of the MSc (CRC) shall issue a deed of withdrawal.

In the first semester, the students attend five (5) courses in total and accumulate thirty (30) credit hours (ECTS). In the second semester, they attend two (2) compulsory courses and three (3) elective courses, which

they choose from two groups of 3 courses each, corresponding to two specializations. a) Specialization in Autonomous Systems and b) Specialization in Cognitive Systems.

Students have the option to choose to take additional 3 courses. The courses, examinations and all other activities of the MSc are conducted in English. Notes and teaching materials are in English. Each lecturer may provide additional (optional) educational material in Greek.

For postgraduate students, according to paragraph (g) of the paragraph. 4 of article 79 of the law. 4957/2022 (A' 141), the possibility of part-time study, the duration of which may not exceed twice the normal duration of study is provided. Part-time attendance may be granted for the following (indicative) reasons:

(a) for the following reasons

- Working students,
- illness,
- serious family reasons,
- military service,
- reasons of force majeure, etc.

The possibility of part-time study is granted after a reasoned request by the student and approval by the CC of the MSc. The application must be accompanied by the relevant supporting documents documenting the reason for which part-time attendance is requested.

A postgraduate student may request a suspension of studies for a serious reason, such as military service, illness, absence abroad, force majeure, provided that he/she submits the relevant supporting documents. The decision is taken by the CC of the MSc. The suspension is granted for full academic semesters. Semesters of suspension do not count towards the maximum period of regular study. The right of suspension may be exercised once or in parts for a period of at least one (1) academic semester, but the total duration of the suspension may not exceed two (2) academic semesters. Students on suspension shall lose their student status for the entire period of suspension. Upon his/her return to attendance, the student shall continue to be subject to the attendance status of the time of his/her enrollment as a graduate student.

Article 7

Course programme

For those students who choose all three courses from the same group - specialization, the specialization will also be indicated in the title of the MSc diploma.

In the third semester, the MSc students shall be exclusively engaged in the preparation of the Master thesis, which they must successfully defend in front of a three-member examination committee. During the MSc thesis period, the MSc students have the opportunity to participate in specialised seminars and workshops. The postgraduate thesis corresponds to 30 ECTS.

The students must attend all the MSc courses of their choice, in accordance with the guidelines set out in the Programme of Studies, and participate actively in the discussions, presentations and other research activities of the Programme.

A. The course schedule shall be structured as follows:

1 st Semester			
ID	COURSE TITLE	Course Type	ECTS
AIDL_A01	Fundamentals of Intelligence and Learning Artificial Machine	Compulsory	6
AIDL_A02	Neural Networks and Deep Learning	Compulsory	6
AIDL_A03	Platforms for AI and Python Programming	Compulsory	6
AIDL_A04	Mathematics for Machine Learning	Compulsory	6
AIDL_A05	Human Centric - Applied Artificial Intelligence	Compulsory	6

			Total ECTS	30
2 nd Semester				
ID	COURSE TITLE	Course Type	ECTS	
AIDL_B01	Data Centers and Infrastructure for supporting AI	Compulsory	6	
AIDL_B02	Advanced Topics in Deep Learning	Compulsory	6	
AIDL_B_AS01	Signal Processing, Pattern Recognition and Machine Learning	Specialisation A	6	
AIDL_B_AS02	Advanced Intelligent Control and Robotic systems	Specialisation A	6	
AIDL_B_AS03	Autonomous Vehicles and Drones	Specialisation A	6	
AIDL_B_CS01	Natural Language Processing with Deep Learning	Specialisation B	6	
AIDL_B_CS02	Artificial Intelligence in Healthcare and Biometrics	Specialisation B	6	
AIDL_B_CS03	Wearable and Affective Computing	Specialisation B	6	
			Total ECTS	30
3 rd Semester				
ΚΩΔΙΚΟΣ	COURSE TITLE	ΤΥΠΟΣ ΜΑΘΗΜΑΤΟΣ	ECTS	
AIDL_C01	MSc Thesis	Compulsory	30	
			30	

Article 8

Technical infrastructure

1. For the proper operation of the MSc, the teaching facilities, laboratories and libraries of the collaborating Departments will be made available. The following laboratories will also be used:
 - a. Laboratory of Computational Intelligence and Intelligent Systems - (EYNES) of the Department of Industrial Design and Production Engineering
 - b. Laboratory of Electronic Automation, Telematics and Cyber-physical Systems of the Department of Industrial Design and Production Engineering
 - c. Laboratory of Computer Networks and Services (CONSERT: Computer Networks & Services Research laboratory) of the Department of Electrical and Electronic Engineering,
 - d. Electronics and Computer Technologies Lab (ECTLab: Electronics and Computer Technologies Lab) of the Department of Electrical and Electronic Engineering.
2. The administrative and secretarial support of the MSc is provided by the MSc Secretariat, which is staffed by administrative staff of the UNIWA and a temporary employee.
3. The resources and funding of the MSc shall come from:
 - (a) tuition fees,
 - (b) donations, sponsorships and financial contributions of all kinds
 - (c) aid of any kind,
 - (d) legacies,

- (e) funds from research projects or programmes,
- (f) own resources of the UNIWA

As the operating costs of the MSc are not fully covered by the above sources of funding, part of its operating costs are covered by the tuition fees.

4. At the end of the term of duty of the CC of the MSc, under the responsibility of its Director, a detailed report on the research and educational work and other activities of the MSc shall be drawn up and submitted to the Special Interdepartmental Committee (in accordance with the provisions of the legislation in force). This report, under the responsibility of the Dean's Office, shall be appropriately handled (as defined in the legislation).
5. The internal and external evaluation of the MSc shall be carried out in accordance with the provisions of the legislation in force.

Article 9

Teaching staff

The teaching work in the MSc shall be assigned, following a decision of the ERC, to the following categories of teaching staff:

- a) members of Teaching Research Staff, Special Teaching Staff, Laboratory Teaching Staff and Special Technical Laboratory Staff of the collaborating Departments or other Departments of the UNIWA or another HEI, with additional employment beyond their legal obligations,
- b) Emeritus Professors or retired members of the faculty of the collaborating Departments or other Departments of the UNIWA or other HEI,
- c) Associate Professors,
- d) appointed lecturers,
- e) visiting professors or visiting researchers,
- f) researchers and special functional scientists of research and technological institutions of article 13A of Law No. 4310/2014 (A' 258) or other research centres and institutes in the country or abroad,
- g) scientists of recognized prestige, who have specialized knowledge and relevant experience in the subject of the MSc.

The assignment of the teaching work of the MSc is carried out by decision of the CC of the MSc. By decision of the CC of the MSc PhD candidates of the collaborating Departments or the School may be assigned ancillary teaching work with a subject related to the provided ancillary teaching work of the MSc, under the supervision of a lecturer of the MSc.

The right to supervise Master Thesis of students shall be granted to the lecturers of the previous cases a) to f) provided that they hold a doctoral degree. By decision of the CC of the MSc, the supervision may be entrusted to also to members of the teaching staff and members of the teaching staff with a doctorate degree from the collaborating departments who have not undertaken teaching work in the MSc.

Article 10

Operating costs

The sustainability of the MSc is largely ensured by the participation (tuition fees) paid by students.

However, the operating costs of the MSc may also be covered by alternative sources of funding such as:

1. Donations, benefits, bequests and any kind of sponsorship from public or private bodies.
2. resources from research projects,
3. resources from programmes of the European Union or other international organisations,
4. any other legitimate source.

The following table shows the budget of the MSc . Based on the provisions of the current legislation, up to 30% of students will be exempted from tuition fees on the basis of financial criteria.

Tuition fees		3.000,00 €
Indicative number of Admissions	30	30 x 3.000 € = 90.000€

Number of students with tuition fees		
70% of the indicative number of admission	21	21 x 3.000 € = 63.000€
Number of students without fees	9	9 x 3.000 € = 27.000 €
Tuition fee income		63.000,00 €
UNIWA expenses for the Specialised Research Account (30%)		18.900,00 €
Budget/Revenue		44.100,00 €

Article 11

Duration of Operation

The MSc will operate until the academic year 2028-2029, when the possibility of its continued operation will be evaluated in accordance with the provisions of the legislation.

Article 12

Transitional provisions

All issues that are not regulated by the applicable legislation, by the present Regulations of the MSc of the School and by the Regulations of Postgraduate Studies of the UNIWA, are regulated by decisions of the competent bodies of the MScs (Director, Coordination Committee, Curriculum Committee of the MSc).

B) the approval of the amendment of the Study Guide (Regulation of Studies) of the Interdepartmental MSc of the Departments of Electrical and Electronic Engineering and Industrial Design and Production Engineering of the School of Engineering of the University of West Attica, entitled "Artificial Intelligence and Deep Learning", as follows:

Article 1

General Provisions

The Departments of Electrical and Electronic Engineering and Industrial Design and Production Engineering of the School of Engineering of the University of West Attica proceed to the amendment of the current Regulations of the MSc in Artificial Intelligence and Deep Learning (no. 27585 decision, B' 1387/2021). The MSc has been established by the Government Gazette B' 1104/2021, as a bilingual (Greek and English language) and is to operate from the spring semester of the academic year 2023-2024 as a International Master of Science programme exclusively in English with an English title: "MSc in Artificial Intelligence and Deep Learning" and with a corresponding Greek title: " πρόγραμμα μεταπτυχιακών σπουδών στην τεχνητή νοημοσύνη και τη βαθειά μάθηση ". The amendment of the Rules of Studies concerns the harmonisation with the current legislation.

Article 2

Subject - Purpose - Learning Outcomes - Degree

2.1 OBJECT

The MSc is on "Artificial Intelligence and Deep Learning".

2.2 OBJECTIVE The MSc aims to:

- The promotion of scientific knowledge and technology in the broader field of the MSc's subject matter. In this direction, the MSc emphasizes the promotion of research and development of innovative algorithms, processes and systems that improve the production of goods and services, taking into account the country's development needs and in the light of the latest concepts of sustainable and human-centred development, environmental protection, bioethics and equal access.

- To train scientists capable of contributing to the research, development, production, transfer and application of the specialised knowledge and skills needed by today's knowledge society in the scientific field of artificial intelligence and deep learning. In particular, the mission of the MSc is to train graduates (Graduates - Diploma holders) of Higher Education (preferably in technology, science and economics) in the development of modern electronic and automation systems and solutions, in the design and development of effective information systems for service delivery and decision making, using the methods and practice of artificial intelligence and deep learning technologies. By extension, the education provided by the MSc aims, through the design and development of the above systems and solutions, to provide the necessary skills that will enable graduates to work (indicatively and not exclusively) in areas such as the design of complex approaches to operational and environmental resource management, total quality management, measurement, distribution of goods and services and e-commerce in the light of relevant legislation, the application of scientific ethics and ethical principles, and the development of new systems and solutions.
- Training in research methods and documentation of research results, support of the research activity of the University of West Attica community and publication of research results in international conferences and scientific journals.
- To collaborate with research groups in academia and the wider research community, with the aim of promoting innovation and the transformation of research results into services and products that promote quality of life, safety and the protection of the environment and cultural heritage.
- The recording of the needs of society, with emphasis on the needs of the citizen, the environment, culture and cooperation with institutions and organizations, with the ultimate goal of recording and providing proposals and solutions for the improvement of living standards, sustainable development and respect for the environment and human values.
- Continuous contact and cooperation with business and industry, aiming to collaborate with pioneering businesses and private sector initiatives, in order to link the theoretical and practical knowledge provided by the MSc.

2.3 LEARNING OUTCOMES

- Upon completion of the Programme, students will be able to:
- Design and analyse solutions using artificial intelligence mechanisms and deep learning algorithms that meet the needs of different sectors of society, the economy and the market.
- They advance the science of artificial intelligence and deep learning by developing new techniques, algorithms and tools that facilitate the implementation and development of new solutions, focusing on user requirements.
- Understand and evaluate the implementation of AI and deep learning solutions on different platforms and computing environments; - Propose and develop integrated solutions in various sectors important to the country's economy, such as citizen services, health, agriculture and livestock, and communications and data security, using AI and deep learning algorithms.
- Work alone or collaborate in teams on design, programming and development of innovative solutions, using AI technological tools, both in terms of software and hardware, to fully exploit the available cutting-edge technology solutions and combine them with innovative approaches and proposals.

2.4 TITLE OF STUDIES

The MSc leads to the award of the Diploma of Postgraduate Studies (MSc) "Artificial Intelligence and Deep Learning" (in Greek "Τεχνητή Νοημοσύνη και Βαθεία Μάθηση ") after the full and successful completion of the studies based on the curriculum. This qualification is level seven (7) of the National and European Qualifications Framework, according to article 47 of Law No. Especially for students who will choose all three courses of one of the two specializations, the title will also indicate the corresponding specialization: "Autonomous Systems" or "Cognitive Systems". Otherwise, the title will not indicate a specialization. The title is awarded by the University of West Attica with the names of the two collaborating Departments indicated.

Article 3

Management Bodies of the MSc

3.1 COMPETENT BODIES

The following bodies are responsible for the organisation and operation of the IMMS:

1. The Senate of the UNIWA
2. the Curriculum Committee of the MSc (CC of the MSc),
3. the Coordination Committee (CRC),
4. the Director of the MSc and
5. the MSc Curriculum Committee of the UNIWA.

All of the above bodies have the competences defined by the legislation in force (Law 4957/2022, article 82).

The Senate of the University has the following responsibilities:

- a) approve the establishment of a MSc or the amendment of the decision to establish the programme,
- (b) approve the extension of the duration of the operation of the MSc,
- c) establish the Curriculum Committee,
- d) decides the abolition of the MSc that are offered by the HEI.

3.3 CURRICULUM COMMITTEE (CC of the MSc)

The Curriculum Committee (CC of the MSc), which consists of members of the faculty of the two (2) collaborating Departments of the University of West Attica and is constituted by decision of the Senate of the University of West Attica, upon the recommendation of the Assemblies of the collaborating Departments. The exact number of the members of the CC and the representation has been defined in the cooperation protocol as two (2) members from the Department of Electrical and Electronic Engineering and three (3) members from the Department of Industrial Design and Production Engineering. The CC of the MSc is responsible for the organization, administration and management of the MSc and exercises the same responsibilities as those of the Assembly of the Department according to par. 3 of Article 81 of the Law. 4957/2022. In particular, the CC of the MSc

- (a) recommends to the Senate the amendment of the decision to establish the Master's degree programme, as well as the extension of the duration of the Master's degree programme;
- (b) establishes examination committees for the examination of the theses of postgraduate students and appoints the supervisor for each thesis;
- (c) determines the successful completion of the course of study in order to award the Master's degree,
- (d) approve the report of the MSc, following the recommendation of the Coordination Committee;
- (e) examines the criteria for exemption from the tuition fees and issue a reasoned decision on the acceptance or rejection of the application;
- (f) approves any other matter required for the smooth operation of the MSc;
- (g) approve the application for the award of the degree;
- (h) approve any other matter required for the smooth operation of the MSc.

3.4 Coordination COMMITTEE (CRC)

The Coordinating Committee (CRC) is responsible for the monitoring and coordination of the operation of the programme and in particular:

- a) prepares the initial annual budget of the MSc and its amendments, if the MSc has resources according to article 84 of Law No. 4957/2022, and shall recommend its approval to the Research Committee of the Special Account for Research Funds;
- b) prepare the programme report and recommend its approval to the SRA;
- c) approves the expenditure of the MSc
- d) approves the awarding of scholarships, contributory or not, in accordance with the provisions of the decision establishing the MSc and the Regulations for Postgraduate and Doctoral Studies of the UNIWA;
- e) recommends to the CC of the MSc the allocation of teaching work, as well as the assignment of teaching work to the categories of lecturers of article 83 of Law No. 4957/2022,
- f) recommends to the CC of the MSc the invitation of Visiting Professors to cover the teaching needs of the MSc,
- g) draws up a plan for the modification of the curriculum, which is submitted to the CC of the MSc,

- h) recommends to the CC of the MSc the reallocation of courses between academic semesters, as well as issues related to the qualitative upgrade of the curriculum.

The CRC is constituted by decision of the CC of the MSc with a two-year term of duty and consists of the Director of the MSc and four (4) members of the teaching and research staff of the two departments, who have a related subject matter to that of the MSc and undertake teaching work in the MSc.

3.5 Director of the MSc.

The Director of the MSc has the following responsibilities:

- a) he/she chairs the Coordination Committee and the Curriculum Committee of the MSc
- b) he/she proposes issues concerning the organization and operation of the MSc to the CRC,
- c) he/she proposes to the CRC and the other bodies of the MSc and the UNIWA issues concerning the effective operation of the MSc,
- d) he/she is the Scientific Officer of the programme, according to article 234 of the Law 4957/2022 and exercises the respective responsibilities,
- e) monitors the implementation of the decisions of the bodies of the MSc and the Internal Regulations for postgraduate and doctoral programmes, as well as the monitoring of the implementation of the MSc budget,
- f) exercise any other responsibility, which is defined in the decision establishing the MSc.

The Director of the MSc comes from the faculty members of either of the two collaborating departments, preferably of the level of Full Professor or Associate Professor, and is appointed by decision of the CC of the MSc for a two-year term of duty, which can be renewed without limitation.

The Director of the MSc, as well as the members of the Coordination Committee or the Curriculum Committee shall not be entitled to any remuneration or any compensation for the performance of the responsibilities assigned to them and related to the performance of their duties.

Appointment of a new Director or member of the CRC, in the event of resignation, may be made by decision of the competent bodies, following a request by the members and a statement of reasons for the request for change/resignation.

3.6 The MSc Curriculum Committee of the University of West Attica

By decision of the Senate, upon the proposal of the Deans of the Faculties of the University of West Attica, the MSc Curriculum Committee of the UNIWA is established. The Committee consists of one (1) member of the Teaching and Research Staff from each Faculty of the University of West Attica, one (1) member from the categories of Special Teaching Personnel (S.T.P.), Laboratory Teaching Personnel (L.T.P.), and Special Technical Laboratory Personnel (S.T.L.P.) of UNIWA and the Vice-Rector, who is responsible for academic matters, as the Chairman. The members of the Committee have experience in organizing and participating in second cycle curricula. The term of office of the Committee shall be two (2) academic years.

The Commission is responsible for:

1. the submission of an opinion to the Senate of the UNIWA for the establishment of new MScs or the modification of existing ones, after evaluating the requests of the Assemblies of the Departments for the establishment of new MSc, the relevant feasibility and viability reports and the costing of the operation of the MSc, as well as the possibility of referral, if the recommendation is not sufficiently justified or the accompanying reports are not complete,
2. the preparation of draft Regulations for the MSc of UNIWA and its submission to the Senate,
3. the preparation of a standard draft of the Rules of Procedure of the MSc,
4. the control of compliance with the Regulations of the operation of the MSc,
5. the monitoring of the implementation of the legislation, the Regulations and the decisions of the administrative bodies of the UNIWA by the MSc,
6. monitoring the implementation of the procedure for exemption from the obligation to pay tuition fees,
7. any other competence defined by the Internal Regulations of the respective MSc.

By decision of the Senate, upon the recommendation of the MSc, the Regulation of the MSc is approved, which constitutes a separate chapter of the Internal Regulations of the UNIWA.

Article 4

Establishment of Minimum and Maximum Number of Admissions, Criteria and How to select applicants

4.1 INCOMERS

The MSc "Artificial Intelligence and Deep Learning" will admit a maximum of sixty (60) and a minimum of ten (10) students per academic year. The exact number will be specified in the annual call for expressions of interest. In case of a tie between candidates, the number of admissible postgraduate students will be increased in order to admit the last tied candidate(s). In addition to the number of applicants, members of the categories of SNEs, HPEs and STPs are admitted as supernumerary fellows.

In the MSc "Artificial Intelligence and Deep Learning" there are 2 specializations.

The MSc in "Artificial Intelligence and Deep Learning" is open to holders of a degree of the A' cycle of studies of Departments or Faculties of Higher Education Institutions of the Greek Federation or similar, recognized by the [DOTAP](#) (the Hellenic National Academic Recognition and Information Center), institutions abroad.

The selection of students is made in accordance with the law. 4957/ 2022, the provisions of the present Regulations for Postgraduate Studies and the provisions of the annual call for expressions of interest.

4.2 CALL FOR EXPRESSIONS OF INTEREST

The Department of Electrical and Electronic Engineering, on dates determined by the CC of the MSc, issues a call for expressions of interest for the admission of postgraduate students to the IMSc. The publication of the call for expressions of interest is carried out by UNIWA under the responsibility of the Department of Electrical and Electronic Engineering, while the relevant costs are borne by the MSc. The call for expressions of interest shall be posted on the websites of the two departments (Electrical and Electronic Engineering – EEE dept. and Industrial Design and Production Engineering -IDPE Dept.), on the websites of the MSc and the UNIWA and in any other appropriate medium. The relevant applications together with the necessary supporting documents are submitted to the MSc Secretariat, within a deadline set in the call for expressions of interest, which may be extended by decision of the CC of the MSc, while there is the possibility to repeat the call for expressions of interest during the winter semester, again by decision of the MSc's CC.

The call for expressions of interest shall mention at least:

- (a) the conditions of participation of postgraduate candidates students in the selection process,
- (b) the categories of graduates and the number of admissions,
- (c) the procedure and criteria for the selection of postgraduate students,
- (d) the deadlines for submitting applications,
- (e) the supporting documents required,
- (f) any other detail deemed necessary, which facilitates the selection process for postgraduate students.

Applications and the required documents are submitted to the Secretariat of the MSc in electronic form, within the deadline set in the call for expressions of interest and may be extended by decision of the CC of the MSc.

4.3 CANDIDATE EVALUATION COMMITTEE (CEC)

The selection of the candidates for admission to the MSc is made by a 3-member Candidate Evaluation Committee (CEC), which consists of members of the faculty of the two collaborating departments (EEE and IDPE) that have undertaken postgraduate work, and which is constituted by decision of the CC of the MSc.

The Commission has the following responsibilities:

- i. Evaluation of all the supporting documents submitted. The completeness of the supporting documents will be checked by the Secretariat of the MSc.
- ii. Language proficiency check.
- iii. Conducting personal interviews.

The CEC checks the timeliness of the applications, the completeness of each candidature based on the submitted supporting documents for participation in the evaluation, which include:

- a) application form for candidacy to the IMSc,
- b) a copy of a diploma/diploma or a certificate of completion study,
- c) a certificate of analytical marks,
- d) a detailed curriculum vitae (detailed reference to studies, teaching and/or professional experience, scientific activity, etc.),
- (e) evidence of research or professional activity (if any),
- g) at least two letters of recommendation,
- h) a copy of your postgraduate degree (if available),
- i) publications in peer-reviewed journals (if any),
- j) a photocopy of two sides of the identity card,
- k) a copy of a certification of C1 level English language certificate. The knowledge is certified by a recognised qualification (e.g. Diploma from an Educational Institution of an English-speaking country or an English-language study programme, First Certificate in English, TOEFL Certificate with a score of at least 500 points (or 300 with the new evaluation method), IELTS Certificate with a score of 6.5 or higher, State Certificate of Attainment (level C1).

Graduates of English-speaking universities are exempted from the obligation to produce a language certificate.

In case the above requirements for good knowledge of English language are not met, the Coordination Committee will decide on the way in which the candidates will be examined in order to determine their proficiency in English.

Knowledge of other foreign languages will be taken into account.

On completion of the evaluation procedures, the CEC will draw up the list of successful and unsuccessful candidates in order of ranking, in accordance with the selection criteria and the weighting coefficients per criterion. Successful candidates are those who have obtained a ranking in the order of merit up to the maximum number of students admitted. Successful candidates are those who are tied with the last successful candidate. Candidates who have obtained a ranking in the ranking order above the maximum admission threshold are considered to be runners-up, with the right to enrol if the candidates ranked higher in the ranking order do not accept the place or do not enrol within the deadline.

In the event of a tie, all candidates who tie will be admitted provided that they do not exceed the maximum number of candidates specified in the Call for expression of interest. If they exceed the maximum number of admission laid down in the Call for expression of interest, the candidates with the highest degree will be admitted until the maximum number of admission is reached. In the event of a new tie, a lottery will be held.

The final ranking of the candidates based on the list of criteria of the Programme and the proposal for the selection of candidates based on this ranking are submitted to the CC of the MSc for validation.

4.4 CRITERIA FOR THE SELECTION OF CANDIDATES

The selection criteria for candidates may include, but are not limited to:

- a) the overall degree/diploma grade,
- b) the grades in the undergraduate courses that are relevant to the subject matter of the MSc,
- c) the performance in a thesis, where this is foreseen at the undergraduate level,
- (d) any research or professional experience; the candidate's experience in a relevant field or in a related subject; and
- (e) adequate knowledge of at least one foreign language, other than the language in which the course is conducted
- f) the performance in the oral interview by the CEC.

CODE	DESCRIPTION	WELCOME
K1	Degree Grade in courses related to the subject of the MSc.	25%
	Diploma or degree thesis, where this is provided for in the first cycle of studies	
K2	Any writing activity of the candidate	5%
K3	Research or professional experience of the candidate or documented experience in a relevant field or in a related subject	10%
K4	Interview	50%
K5	Sufficient knowledge of at least one foreign language a language other than the language of the competition MSc	5%
K6	Scientific Interest Text	5%

The required supporting documents must be submitted within the deadlines set out in the annual call for expressions of interest.

The selection procedure is as follows:

The Secretariat of the IMSc receives the applications and the necessary supporting documents submitted by the candidates postgraduate students, which are provided by the annual call for expressions of interest and draws up a list of candidate postgraduate students, which transmits to the CEC.

The supporting documents submitted by candidates must be submitted by the deadline specified in the relevant call for expressions of interest. Late applications will not be accepted.

There are two stages in the evaluation process:

In the first stage, applications are assessed on the basis of the completeness and validity of the required supporting documents submitted, which are a prerequisite for qualification to the next stage.

In the second stage, candidates are invited to an interview by the CEC. The aim is to determine whether the candidates are able to meet the requirements of the programme, taking into account their motivation and interest, but also their overall constitution and scientific competence in relation to the subject of the programme.

Specifically, the selection board draws up a full list of all the candidates, ranks them, makes the final selection and draws up the provisional list of successful and successful candidates, which is validated by the selection board. It is posted in accordance with the provisions on personal data protection on the website of the IMSc and in the Announcements of the Secretariats of the two departments (EEE and IDPE) of the UNIWA.

If two or more candidates obtain the same number of points in total, the procedure described in par. 4.3.

An appeal against the provisional list of successful candidates may be lodged within five (5) working days from the date of publication of the lists. The objection must be specific and must be finally decided by the objection committee (a three-member committee of members of the faculty of the two departments of the PADA that have undertaken postgraduate work, decided by the CC of the MSc). After the deadline for objections and the final decision of the objections committee (if there are any objections), the final list of successful candidates is posted, following the same procedure as the provisional list.

Successful candidates are invited to reply in writing and electronically (e-mail) within a specified period of time from the posting of the final list (as specified in the call for expressions of interest of the MSc) if they accept the position offered to them in the MSc and its terms of operation, as described in the present regulations of the MSc.

If there are negative replies, the Secretariat will inform the candidates next in the order of merit from the final list of successful candidates, if any.

4.6 REGISTRATION IN THE IMSc

Successful candidates must register with the MSc Secretariat before the beginning of the first semester, within deadlines set by the competent bodies as mentioned in Article 3 of this document, and announced on the MSc website using the candidate's application number, without mentioning his/her name, for reasons of personal data protection and compliance with the General Data Protection Regulation (GDPR). Admitted postgraduate students can be informed from the website of the MSc, the websites of the two departments (EEE and IDPE) of the UNIWA and/or from the MSc Secretariat.

Article 5

Categories of Candidates for enrolment in the MSc

Graduates of Higher Education Institutions of the Greece or similar institutions of foreign countries are admitted to the Master's programme, in accordance with the provisions of the legislation in force.

Applications can be submitted by graduating students, provided that they have submitted a Certificate of Completion of Studies before the date of registration. In such cases, when the list of successful candidates is validated, their inclusion in the list is conditional, and a copy of their degree or diploma or a copy of their Certificate of Completion of Studies or Graduation Certificate must be presented before the start date of the programme in order to complete the registration process.

Applications may also be submitted by graduates or final year students of foreign universities which are not yet included in the National Register of Recognised Institutions of Foreign Countries of the DOATAP. In the case where a foreign HEI is not listed on the DOATAP website, the IMSc shall apply the procedure of par. 5, of article 304, of Law No. 4957/2022. Otherwise, the student will be deleted, without the student being entitled to a refund of any money paid as a deposit.

Members of the categories of S.E.P., as well as S.I.P. and S.T.E.P. (and administrative staff if decided by the CC of the MSc) may, upon request, be registered as supernumeraries and only one per year, without tuition fees.

Article 6

Duration of Studies - Part-time - Suspension of Attendance

6.1 DURATION OF STUDY

The duration of study in the MSc leading to the award of the Diploma of Postgraduate Studies is defined as three (3) academic semesters, each of thirteen (13) weeks of teaching. The compulsory courses of each semester shall not be less than 39 teaching hours (Article 64 of Law 4957/2022), which includes the time for the preparation of the postgraduate thesis. The maximum time allowed for the completion of studies (maximum normal duration of studies) is set at five (5) academic semesters, following a reasoned application by the student and approval by the CC of the MSc. After the maximum period of study has been completed, subject to the following paragraphs, the Coordination Committee shall issue a deed of withdrawal. In the first semester, the students attend five (5) total courses and accumulate thirty (30) credit hours (ECTS). In the second semester, they attend two (2) compulsory courses and three (3) elective courses, chosen from two groups of 3 courses each, corresponding to two specializations: α) Specialization in Autonomous Systems and β) Specialization in Cognitive Systems. Students have the option to choose to attend additional 3 courses. The courses, examinations and all other activities of the MSc are conducted in English. Notes and teaching materials are in English. Each lecturer may provide additional (optional) educational material in Greek.

6.2. PART-TIME ATTENDANCE

For postgraduate students, in accordance with par. 4 of article 79 of Law No. 4957/2022 (A' 141), the possibility of part-time study, the duration of which may not exceed twice the normal duration of study. Part-time attendance may be granted for the following (indicative) reasons: working students, disease, serious family reasons, military service, reasons of force majeure, etc. The possibility of part-time attendance is provided after a reasoned request by the student and approval by the CC of the MSc. The application must be accompanied by the relevant documents that document the reason for the request for part-time attendance.

6.3. SUSPENSION OF STUDIES

The postgraduate student may request a suspension of studies for a serious reason, such as military service, illness, absence abroad, force majeure, provided that he/she submits the relevant documents. The decision is taken by the CC of the MSc on the recommendation of the Coordination Committee. The suspension is granted for full academic semesters. The semesters of suspension do not count towards the maximum period of regular study. The right of suspension may be exercised once or in parts for a period of at least one (1) academic semester, but the total duration of the suspension may not exceed two (2) academic semesters. Students on suspension shall lose their student status for the entire period of suspension. Upon his/her return to attendance, the student shall continue to be subject to the attendance status of the time of his/her enrollment as a graduate student.

Article 7

Curriculum

The MSc starts in the spring semester of each academic year. The successful examination in all courses of the programme of study and the successful completion of the thesis are necessary prerequisites for the award of the Diploma of Postgraduate Studies (MSc).

The curriculum per semester is as follows:

AIDL_A01: Fundamentals of Artificial Intelligence and Machine Learning

Do machines think? Are they capable of creating ideas, art, understand human sentiments or even learn? Artificial Intelligence –AI is a wide — ranging branch of computer studies with a long history, shown a remarkably growth over the last years, transforming the way that people live, work and socialize. Machine Learning, as a driving force of modern AI, is focusing on applications which learn from experience (data) in order to improve decision making or increase the accuracy of predictions over time. The main objective of this course is the acquisition of fundamental knowledge on the field

of Artificial Intelligence. For this purpose, critical terminology such as intelligent agents, machine learning, ethical and biased AI will be presented. Moreover, intelligent agents will be studied and applied to problems of non-informed search, informed search and exploration. In addition, various representative fields of applied AI will be studied, such as Self-driving Vehicles, Precision Agriculture, and Content Recommendation. At the course end, the students will have acquired sufficient knowledge on algorithms and modern machine learning techniques as well as a skill set on machine learning development applications in order to be able to solve a number of related problems. Finally, students will acquire the fundamental background on new aspects of AI, whilst at the same time they will acquire hands-on experience on applying those powerful techniques on problems of their choice.

AIDL_A02: Neural Networks and Deep Learning

The aim of the course is the study and analysis of Deep Learning models and methods as well as their application in various fields, such as Computer Vision. In this course, students will first examine state-of-the-art technologies whilst next they will learn to apply, train and improve their own Deep Neural Networks, making especial focus on image recognition. The notes as well as the proposed exercises, are based on the teaching material and suggestions which have been developed for this purpose by the NVIDIA Deep Learning Institute (<https://developer.nvidia.com/teaching-kits>).

AIDL_A03: Platforms for AI and Python Programming

In this course, students will examine various topics related to the hardware and software of Artificial Intelligence. In particular, all the popular available platforms will be presented in order the students to choose the most suitable platform for each specific application. Moreover, for each platform, the related development ecosystems will be presented.

Next, the students will become familiar with Python language and its capabilities in the context of developing artificial intelligence and machine/deep learning applications. Through development environments, such as Jupyter notebook ID, students will examine various subjects such as data analysis, data visualization, machine learning, and parallel data processing.

AIDL_A04: Mathematics for Machine Learning

In this course, the students are introduced to the basic mathematical concepts required to understand deep learning. They start from the general ideas of applied mathematics that allow to define multivariable functions, find the maximum and minimum points of these functions as well as to quantify the degrees of certainty. Next, the fundamental goals of machine learning are analyzed. The students examine how to achieve these goals by defining a model which has specific targets, designing a cost function which measures how well those targets correspond to reality whilst using a training algorithm in order to minimize this cost function. This fundamental framework is the basis for a wide range of machine learning algorithms, including non-deep learning approaches. However, the main aim is to develop deep learning algorithms within the defined framework.

AIDL_A05: Human Centric – Applied Artificial Intelligence

The main aim of the course is the integration and completion of the technical knowledge acquired in other courses within the MSc program, creating a holistic understanding of AI as well as to acquire insights into the application of Artificial Intelligence in various scientific fields, showcasing its advantages over conventional methods. The students will get familiarized with the ethical principles adopted by the European Union and

ethical applications of AI as defined by the AI HLEG and will understand the legal implications of AI, particularly in areas such as justice, security, health, work, and education, while highlighting the requirements of new legislation (AI Act) for the protection of human rights. Moreover, through real-world case studies will experiment and study in order to illustrate and analyze AI-related problems and challenges. Finally, they will acquire the methodological skills related to research in Artificial Intelligence and Deep Learning, including the publication of research results, creation and use of FAIR datasets, consideration of data quality, and selection of appropriate tools for data utilization.

AIDL_BO1: Data Centers and Infrastructure for supporting

The course "Data Centers and Infrastructure for Supporting Artificial Intelligence" provides a comprehensive understanding of the critical components and technologies that power AI infrastructure. The course explores the role of data centers as the backbone of AI systems and introduces students to the key concepts of managing and scaling AI workloads. Students will be introduced to the world of cloud computing and of Kubernetes, a container orchestration platform widely used in data centers, and learn how it enables efficient deployment, scaling, and management of AI applications. They will also gain insights GPU hardware specifically designed for accelerating AI workloads, and understand how these powerful processors contribute to enhancing AI performance and training. Additionally, the course covers Edge AI hardware, addressing the unique challenges and requirements of running AI models on edge devices. Students will explore real world case studies and gain hands-on experience with publicly available open-source machine learning toolkits build on top of virtualized infrastructures (i.e. Bright, Kubeflow), which streamlines the deployment and management of AI workflows in data centers.

AIDL_BO2: Advanced Topics in Deep Learning

Due to the advancements on Deep Learning (DL), we are now in the age of Narrow Artificial Intelligence, where a computer program is able to surpass people in very narrow tasks, such as image classification, speech recognition and auto-reply. In addition, software agents are able to outperform human performance by choosing their own strategies in complex puzzle games such as chess and Go as well as multiplayer video games such as StarCraft II, which are based

on Deep Reinforcement Learning (DRL) algorithms. Next, Deep Learning algorithms have the ability to create artificial images which can be indistinguishable from humans. However, in order to enter the age of General Artificial Intelligence, Deep Learning models must be able to learn from a small amount of data and apply their knowledge from one field to another field, as people do. The aim of the course is to present advanced Deep Learning methods which are able to train models in small data-sets as well as to perform transfer of learning among different fields. Furthermore, in this course students will become familiar with Deep Reinforcement Learning methods in order to apply them to electronic games, robotic system simulators as well as finding the optimal Deep Learning architectures. The notes as well as the proposed exercises, are based on the teaching material and suggestions which have been developed for this purpose by the NVIDIA Deep Learning Institute (<https://developer.nvidia.com/teaching-kits>).

AIDL_B_AS01: Signal Processing, Pattern Recognition and Machine Learning

The field of (digital) signal processing has a long impact of more than half a century in theoretical foundation and technological progress. Important technological developments in modern telecommunications, multimedia and voice processing, medical imaging and computational vision are completely aligned with the development of novel signal processing algorithms. Pattern recognition is an important field of digital signal and image processing serving the purposes of recognition and classification of sound, speech, music, images, handwritings, signatures, landscapes, etc. as well as decision making. However, the continuous increase of available information and data combined with the rapid upgrade of computing capabilities even at the average user level has underlined the potential of data-driven approaches and in particular of machine learning algorithms in order to attain these goals. Using machine learning, diachronically difficult problems in pattern recognition, such as speech recognition or image classification which are content-based, can be solved faster and with greater accuracy as compared to conventional solutions. On the other hand, widespread signal processing techniques can be used as a first step in a machine learning algorithm in order to attain improved performance using a smaller amount of data at a lower computational cost. The main aim of this course is to introduce machine learning algorithms, to connect them with the classical methods of signal processing and pattern recognition and to highlight their usefulness in modern problems solving.

AIDL_B_AS02: Advanced Intelligent Control and Robotic systems

Advanced Intelligent Control and its applications in robotic systems is a result of the needs of improving the “intelligence” of robotic systems, towards combining the intelligent behavior with elements of reasoning, learning as well as environment adaptation. The aim of the course is to present, analyze and utilize various models and methods of Computational Intelligence, consisting of various research topics related to Artificial Neural Networks, Deep Learning, Fuzzy Systems, Deep Neuro-Fuzzy Networks, Evolutionary Algorithms and Expert Systems. In this course, students will become familiar with models and the theory of Computational Intelligence, as well as with advanced information technologies applied in the field of industry, unit production and transport.

AIDL_B_AS03: Autonomous Vehicles and Drones

Autonomous vehicles and unmanned area vehicles have entered our daily lives as commercial products from automotive businesses such as Tesla as well as via the widespread use of drones for entertainment, surveillance, audiovisual material production, even the delivery of goods. Large companies such as Tesla, Mercedes, BMW, Volvo, Intel, Google, NVIDIA and Amazon are investing huge portions of money in the development of Artificial Intelligence (AI) algorithms in order to solve their biggest challenges, such as autonomous driving. Autonomous driving of vehicles and unmanned aerial vehicles requires advanced motion sensors, positioning systems and telecommunication equipment as well as the “fusion” of relevant information in the autonomous vehicle and unmanned aircraft control system in external places where operating conditions vary over time. Deep Learning comprises the modern approach of Machine Learning, making use of Artificial Neural Networks for identification of objects/obstacles purposes in autonomous navigation processes. The main aims of this course are to present the architecture of an autonomous vehicle/unmanned aerial vehicle, its critical subsystems (sensors, positioning system, motor/servomotors, motor electronics/servomotors, programming toolchain), the development and evaluation of Model Based Design-Model based programming as well as the application of Deep Learning methods for their control and autonomous navigation. In this course, students will become familiar with state-of-the-art technologies and they will learn to apply, train and improve their own Deep Neural Networks, for the scope of autonomous vehicle navigation. Part of the course notes as well as the toolchain for autonomous driving of vehicles and unmanned aerial vehicles is based on the teaching material and suggestions which have been developed for this purpose by the NVIDIA Deep Learning Institute (<https://developer.nvidia.com/teaching-kits>) as well as from the ARM Company (www.arm.com).

AIDL_B_CS01: Natural Language Processing with Deep Learning

Applications which make use of Natural Language Processing (NLP) algorithms have increased over the last decade. With the rapid growth of artificial intelligence assistants and the tendency of companies to enhance their services with

more interactive human-machine interactions, it is mandatory to understand how NLP techniques can be used to manipulate, analyze and create data which are based on text. Modern techniques can capture the tone, context, and refinement of language, as humans do. And if they are properly designed, developers can exploit these techniques to create powerful NLP applications which provide natural and seamless human-computer interactions with chatbots, intelligent software agents and much more. Deep Learning models have gained widespread acceptance for NLP operations due to their ability to generalize accurately across a range of contexts and languages. Transformer-based models, such as the Bidirectional Encoder Representations from Transformers (BERT) model, have revolutionized the NLP by providing accuracy comparable to human reference lines at reference points such as the SQuAD dataset for Q&A, entity recognition, recognition of intentions, sentiment analysis etc. In this course, students will become familiar with language processing techniques, word embeddings as well as they will learn to apply, train and correct their own Deep Neural Models. The notes as well as the proposed exercises, are based on the teaching material and suggestions which have been developed for this purpose by the NVIDIA Deep Learning Institute (<https://developer.nvidia.com/teachingkits>).

AIDL_B_CS02: Artificial Intelligence in Healthcare and Biometrics

Artificial Intelligence (AI) in the past decade has transformed industries around the globe providing the potential to change the healthcare sector radically. Medical data are produced daily in large numbers either in Hospital Radiology Departments or in corresponding Microbiological Laboratories. All collected data as well as the procedures used for their collection, are able to be analyzed by AI and Deep Learning (DL) algorithms in order to optimize patient care via attaining more accurate diagnosis and prognosis. During this course, students will become familiar with techniques which process and analyze bio-signals (electroencephalogram, electromyogram, electrocardiogram, etc.), two and three-dimensional image data representations (xrays, CTscan, magnetic resonance imaging, etc.) as well as Diagnostic Support Systems using various techniques of AI and DL. Moreover, students will have the opportunity to apply AI / DL algorithms to real visual data / bio-signals.

AIDL_B_CS03: Wearable and Affective Computing

Modern multifunctional fabrics and current electronic systems have made possible their synergy in order to create wearable electronic and interactive clothing. Topics of interest on this course are activity recognition, personalized data processing, and user modeling, while physical and mental health monitoring and various types of personal assistance systems constitute important applications. Regarding research topics, these include non-intrusive communication channels for immediate real-time feedback, such as tactile feedback via body-activated actuators or audio feedback. Based on the above, in this course, a wide range of modern wearable equipment technology will be presented, the basic electronic principles and the interaction with software platforms for the provision of innovative technologies will be also analyzed, in order the students to be able to develop their own projects, as well as special emphasis will be placed on usability, interaction design and environmental interfaces, focusing on multimodal interfaces.

Emotion AI & Affective Computing arise from the need that Artificial Intelligence and Machine Learning must be feedbacked by knowledge which already exists and/or it is derived from the socioemotional and psychological sciences in order to become more "Human". In this context, this course will dive into the study and analysis of models and methods of Emotion Computing (a branch of Artificial Intelligence) and their application in various fields (e.g. education). As a result, students will become familiar with models and theories of emotions from psychology, neuroscience and pedagogy, as well as cutting-edge applications and technologies for the collection, analysis and visualization of emotional information, derived from Emotional Computing and Artificial Intelligence.

AIDL_DIPL: MSc Thesis

The master's thesis (MTh) focuses on a cutting-edge topic in the subject of choice approaching this subject holistically using elements of originality and introducing the students into the way that a researcher thinks and acts. The master's thesis is supervised by an MSc instructor and is examined by a three-member committee of MSc instructors. The master's thesis can be prepared in Greek or English language, and the student, before the submission, must ensure that its content is at least 80% original, excluding references. For this purpose, special similarity control software available by UniWA will be used, and the submission of the work must be accompanied by the control report which shows the percentage of similarity of the MTh with existing texts, which should not exceed the 20%.

The curriculum of the MSc corresponds to ninety (90) ECTS credits. Each course corresponds to a specific number of ECTS credits and is taught for one academic semester. During their studies, full-time BSc students in the first semester attend a total of five (5) courses and accumulate thirty (30) ECTS credits. In the second semester, they attend

two (2) compulsory (M) courses and three (3) elective (E) courses, which they choose from two groups of three (3) courses each, corresponding to two specialisations:

- a) Specialization in Autonomous Systems and
- b) Specialization in Cognitive Systems.

For those who choose all three courses from the same group - specialisation, this specialisation will also be indicated in their degree, while for those who do not choose all three courses from one specialisation, no specialisation will be indicated in their degree.

Students who wish to study part-time for a semester must register for at least 2 courses for that semester, and in particular for each semester they have the following options:

- Either to register two (2) courses with the obligation to register the remaining three (3) courses in the following academic year in order to complete the semester,
- either to register three (3) courses with the obligation to register the remaining two (2) in the following academic year to complete the semester.

For each semester of part-time attendance, the tuition fees are set at 50% of the fees for full-time attendance regardless of the number of courses registered.

1 st Semester			
ID	COURSE TITLE	Course Type	ECTS
AIDL_A01	Fundamentals of Intelligence and Learning Artificial Machine	Compulsory	6
AIDL_A02	Neural Networks and Deep Learning	Compulsory	6
AIDL_A03	Platforms for AI and Python Programming	Compulsory	6
AIDL_A04	Mathematics for Machine Learning	Compulsory	6
AIDL_A05	Human Centric - Applied Artificial Intelligence	Compulsory	6
		Total ECTS	30
2 nd Semester			
ID	COURSE TITLE	Course Type	ECTS
AIDL_B01	Data Centers and Infrastructure for supporting AI	Compulsory	6
AIDL_B02	Advanced Topics in Deep Learning	Compulsory	6
AIDL_B_AS01	Signal Processing, Pattern Recognition and Machine Learning	Specialisation A	6
AIDL_B_AS02	Advanced Intelligent Control and Robotic systems	Specialisation A	6
AIDL_B_AS03	Autonomous Vehicles and Drones	Specialisation A	6
AIDL_B_CS01	Natural Language Processing with Deep Learning	Specialisation B	6
AIDL_B_CS02	Artificial Intelligence in Healthcare and Biometrics	Specialisation B	6
AIDL_B_CS03	Wearable and Affective Computing	Specialisation B	6

		Total ECTS	30
3 rd Semester			
ΚΩΔΙΚΟΣ	COURSE TITLE	ΤΥΠΟΣ ΜΑΘΗΜΑΤΟΣ	ECTS
AIDL_C01	MSc Thesis	Compulsory	30
		30	

Article 8

Diploma of Postgraduate Thesis

The postgraduate student is required to prepare and successfully support his/her Master's Thesis in the third (C) semester of studies. The right to apply for a Master Thesis is subject to the successful completion of the courses in the programme of study, unless the competent institution decides otherwise. During the period of preparation of the MSc, the MSc students have the opportunity to participate in specialised seminars and workshops and to prepare their thesis in cooperation with research, academic institutions and enterprises active in subjects related to the subject of the MSc. The M.Sc. corresponds to 30 ECTS.

Specific topics for the preparation of the Master's thesis are defined by the MSc Thesis Guide, which includes the following:

1. The educational purpose of the MSc Thesis,
2. the stages of the submission of the MSc Thesis,
3. the areas of research interest,
4. the stages of conducting the MSc Thesis,
5. the procedure for changing the title of the MSc Thesis
6. good practices in the drafting of the text and the electronic or printed reading of the MSc Thesis,
7. studying and finding bibliographic sources,
8. the drafting of research papers,
9. the criteria for the evaluation of the MSc Thesis,
10. the change of supervisor, etc.

Article 9

Organization of IMSc with the Use of Modern and Asynchronous Distance Learning

The organization of the educational process of the IMSc combines face-to-face and modern distance education, with the use of appropriate methods in accordance with the provisions of Law No. 4957/2022 and Article 9 of the Standard Rules of Studies of the Master's Degree Programmes of the UNIWA (B'4861/2023) and the joint ministerial decision under the reference 18137/Z1/16-02-2023 (B'1079).

The teaching of the courses and the assessment of the Students is done by combining face-to-face and modern distance learning methods. 'Modern distance learning' is a method of education through technological mediation (videoconferencing environment) where the teacher and students interact in a different place but at the same time, with the possibility of two-way communication and real-time sharing of multimodal content (slides, videos, etc.). The percentage of teaching using "Modern Distance Learning" can reach 75% of the course lectures. The exact method of teaching and assessment of each course is contained in its published outline and announced at the beginning of each semester.

Modern distance learning makes use of the e-learning platforms and other online infrastructure of the UNIWA. At the same time, the learning material and other supporting material for study (notes, presentations, suggested bibliography, scientific articles, images, diagrams, etc.) is available in digital form on the asynchronous distance learning platforms maintained by the UNIWA. The organisation of the educational process using distance learning methods ensures accessibility for people with disabilities and special educational needs.

In particular, the following systems of the University of West Attica are used for the needs of distance education.

1. MS TEAMS. The MS TEAMS system is used for modern videoconferencing and virtual e-classroom sessions. The MS TEAMS system supports:

- i. Visual and audio communication in real time using appropriate equipment (computer with camera, microphones, speakers, headphones) so that the teacher and the students can have voice and visual communication while they are in different places,
- ii. use and sharing of applications and texts
- iii. (application and document sharing)
- iv. use and sharing of electronic whiteboard
- v. access to chat rooms both between lecturer and students for collaboration, exchange of views and joint work
- vi. Breakout sessions for the organisation of group activities.

2. e-class. The eclass Management System of the University of West Attica is the central point of access to all distance education services. All courses of the MSc are hosted in e-class Moodle and their content is appropriately organized by the lecturer(s) in charge per subject unit or lecture week and contains the slides, exercises, videos, tests, etc. as well as the links to the corresponding synchronous distance learning sessions of each course. Each course contains an announcements forum (for announcements to students by the teaching staff) and a discussion and query resolution forum in which all students can participate and there is the possibility for direct messaging, writing and completing questionnaires, announcing, assigning and grading assignments, as well as a calendar.

By registering and by assigning teaching assignments by the CC of the MSc, faculty members gain access to the integrated tele-education system of the UNIWA in accordance with the same rules as for undergraduate students and faculty members respectively regarding the user accreditation procedure and access rights. Course materials intended to support distance learning shall be designed in accordance with the relevant pedagogical framework for student-centred distance education. Teaching staff involved in the teaching of the MSc are required to have digital skills. The policy of personal data protection and compliance with the provisions of the General Data Protection Regulation (GDPR) and Law no. 4624/2019, the information systems security policy targeting the field of e-learning systems development, and the information privacy and cybersecurity management policy are identical to the policies of the UNIWA that apply to all postgraduate and undergraduate programmes.

Article 10

Student Evaluation - Examinations

At the beginning of each semester and before the beginning of the courses of the MSc, the academic calendar of the MSc is announced to the students, which is determined by a decision of the CC, following the recommendation of the CRC.

The CRC of the MSc prepares and announces the examination timetable for each examination period in good time and no later than ten (10) days before the beginning of the examinations. There may be a repeat examination period.

The assessment of the students and their performance in the courses they are required to attend within the framework of the MSc is carried out by means of assignments and may include written or oral examinations or a combination of these methods which may take place throughout the semester. The method of assessment is described in the posted outline of each course. Performance in each course is assessed by the instructor(s) and graded on the grading scale applicable to undergraduate students. Specifically, the grades awarded range from zero (0) to ten (10). Qualifying grades are five (5) and above. To address emergencies or circumstances attributable to force majeure, electronic means may be used for course evaluation, provided that the integrity of the evaluation process is ensured.

Alternative methods may be applied for the assessment of students with disabilities and special educational needs, as provided for in the Internal Regulations of the UNIWA.

In order to improve the grade of the student, it is permitted to retake only one subject in which the candidate has passed in an examination period that includes that subject.

If the student fails more than three (3) times in the same course, he/she may request, with his/her application to the Director of the MSc, to be evaluated by a three-member committee, which consists of teaching staff of a Department of the UNIWA, with the same or related subject matter as the course under examination, in which the lecturer of the course cannot participate. If the Director of the MSc. does not appoint the members

of the committee within one (1) month of the submission of the application, the student may request the appointment of the members of the committee from the Chair of the Department of EEE.

Article 12

Rights and Obligations of Postgraduate Students - Deletion

12.1. RIGHTS OF POSTGRADUATE STUDENTS

The students have all the rights and benefits provided for first cycle students except for the right to free textbooks. They may use the existing logistical infrastructure of the University of West Attica, which includes teaching rooms equipped with modern teaching aids and computers, the Library, the facilities of the Departments of EEE and IDPE, as well as the University Laboratories that support the MSc.

The students who have no other medical and hospital care, are entitled to full medical and hospital care in the National Health System (NHS) with coverage of the relevant costs by the National Health Service Organization (NHS) in accordance with article 33 of Law No. 4368/2016 (A' 83).

PWs are entitled to free food based on their individual and family financial situation and their locality.

The students may apply for external funding for their studies from various public and private sector institutions or bodies and Research Institutes.

The students may be covered financially by funded research programmes in which they participate. The relevant details are defined by decision of the CC of the MSc, following the recommendation of the Director of the MSc.

Students may participate in the University's student exchange programmes (e.g. ERASMUS) or in other research programmes of foreign universities, within the framework of transnational agreements between the Department and similar institutions and may be enrolled as visiting students.

The collaborating Departments are obliged to ensure accessibility to the proposed texts and teaching for the disabled and/or special needs.

12.2. OBLIGATIONS OF POSTGRADUATE STUDENTS

The students are required to renew their registration at the beginning of each semester. Renewal shall take place at the beginning of each semester, within deadlines set by the competent institutions.

The students have the following obligations:

- Attend the courses of the current curriculum without interruption.
- Submit the required work within the specified deadlines.
- Attend the prescribed examinations.
- To declare responsibly that their MSc Thesis is not a product of plagiarism either in whole or in parts.
- Pay the prescribed tuition fees as defined in the Internal Regulations of the MSc
- Respect and comply with the Regulations for Postgraduate Studies, the decisions of the MSc, the Department and the University of West Attica, as well as academic ethics.

The MSc's students are invited to participate and attend seminars, debates, conferences/meetings with a subject related to that of the MSc, lectures or other scientific events of the MSc. They may perform adjunct teaching duties in first cycle programmes of study by decision of a competent body of the MSc. The academic ID is issued by the Electronic Academic Identity Service of the Ministry of Education and Religious Affairs.

12.3. WITHDRAWAL OF POSTGRADUATE STUDENTS

The deletion of a student is made after a relevant recommendation of the CRC of the MSc to the CC of the MSc and a relevant decision is taken by the CC. The decision shall be communicated in writing and in evidence within fifteen (15) days to the interested PM who has the right to lodge an appeal within fifteen (15) days from the date of its issuance. The appeal shall be finally decided by the above bodies.

The CC of the MSc, after the recommendation of the CRC, may decide to delete a student for the following reasons:

- α. Failure to fulfill the obligations of the student, as described in the Study guide of the MSc.

- β. Non-payment of the prescribed tuition fees (in any case, a student who has not met his/her financial obligations is not entitled to receive either a certificate of completion of studies or the Diploma of Postgraduate Studies),
- c. Disciplinary offences, such as breach of academic ethics and in general any violation of the legislation and the Internal Regulations (Study guides) of the UNIWA.
- δ. Request for deletion of the same student.
- ε. Have repeatedly failed the examinations in a subject or courses as defined in the Internal Regulation (Study guide) of the MSc.
- f. Did not renew their registration or did not attend the courses were taken for two (2) consecutive semesters
- g. They have committed the offence of plagiarism or an offence falling under the law on intellectual property (Law 2121/1993).
- η. For any other reason deemed necessary

In the event of a definitive discontinuation of studies or the deletion of a student for any reason, the fees already paid will not be refunded.

Article 13

Tuition Fees

The students of the MSc are required to pay a tuition fee of 3000 euros, which is paid in instalments: 1000 euros (for full-time studies) is paid at the time of initial registration, and the remaining amount is paid in four instalments of 500 euros (upon registration and completion of the second and third semester of studies). In the case of part-time attendance, the above amounts are halved. Tuition fees are paid to the Special Account for Research Funds (SACR) of the University of West Attica, which is responsible for their administration.

The students are required to have paid all their financial obligations before the awarding of the Certificate of Completion of Studies and the awarding of the Diploma of Postgraduate Studies.

An exemption from tuition fees is available in accordance with (a) the applicable exemption legislation, or (b) as described in Article 14 herein on scholarships.

In cases of interruption of studies, the total amount paid will not be refunded.

Article 14

Scholarships

The MSc may grant scholarships, contributory and non-reimbursable, or excellence awards to full-time students, according to the decision of the CC of the MSc. Scholarships shall be awarded on the basis of objective, academic, financial and social criteria, which may include, but are not limited to:

1. Academics:
 - α) Attendance.
 - b) The average grade point average of the previous semester (if the student has successfully passed all the courses of the semester).
 - c) The degree with which the student was admitted to the MSc
 - d) Recent academic performance (awards and honours).
2. Financial:

Registered students may study free of charge in a MSc, if the payment of tuition fees is foreseen, if they meet the financial or social criteria according to the provisions of article 86 of Law No. 4957/2022 and the No. 108990/Z1/8-9-2022 of the Ministry of Justice. (B' 4899/2022).
3. Social:
 - α) Divorced with dependants (children).
 - b) Disability of the candidate.
 - c) Single-parent family.
 - d) Orphaned by two parents and not over 25 years of age.

- e) Child of a large family;
- f) Members of the same family.

Also, the MSc may grant scholarships to the PhD students in order to support the preparation of research projects abroad, upon request of the student and evaluation by the CC of the MSc.

Procedure:

Following the recommendation of the CRC of the MSc, a call for applications for the awarding of scholarships is issued. The candidates must complete all the mandatory fields of the application form with the required documents and submit them to the Department's Secretariat within the calendar deadlines specified in the call. The application form is considered as a Responsible Declaration of the Law no. 1599/1986.

The competent body evaluates and classifies the nominations based on the criteria set out in the Study Guide of the MSc and recommends the list of candidates to the CC of the MSc.

The maximum number of scholarships in the MSc is set at three (3) per year in case of application of the academic criteria.

Scholarship is not granted in case the student is already receiving a scholarship from another source and to students who have been admitted to the MSc without the obligation to pay tuition fees.

Article 15

Diploma of Postgraduate Studies (D.P.S.)

The Diploma of Postgraduate Studies (D.P.S.) is a public document. Its type is determined by the decision of the Senate and is signed by the Rector, the Director of the MSc and the Secretary of the MSc or their legal deputies and bears the seal of the UNIWA. The collaborating Departments are indicated in the MSc. In particular for those students who will choose all three courses from the same specialisation (one of the two offered specialisations), the title will also indicate the corresponding specialisation.

The graduate of the MSc may be granted, before the award, a certificate that he/she has successfully completed the MSc and an analytical grade with the corresponding credit points.

The Diploma of Postgraduate Studies is accompanied by a Diploma Supplement which is an explanatory document and does not replace the official degree or the detailed course grades. The Diploma Supplement is attached to the MSc and provides information on the nature, level, general context, content and status of the studies successfully completed by the person named on the original of the diploma. The Annex does not make any evaluative judgements and there are no statements of equivalence or proposals for the recognition of the MSc abroad. The Diploma Supplement is issued automatically and without any financial charge in Greek and in English and must meet the authenticity requirements for the degree awarded. The date of issue of the Diploma Supplement does not necessarily coincide with the date of award of the degree, but can never be earlier than this date. The degree of the MSc is derived from the evaluation grade in the courses and in the MSc Thesis. More specifically, in each semester, the MSc student receives a grade in each course examined and, if successfully evaluated, is credited proportionally with the corresponding credit points:

- a) in lessons,
- b) in the MSc Thesis.

The grade of the Diploma of Postgraduate Studies is calculated to two decimal places and is obtained from the formula:

$$B = (B1 \cdot P1 + B2 \cdot P2 + \dots + Bn \cdot Pn) / (P1 + P2 + \dots + Pn)$$

where B1, B2, ..., Vn are the grades of all courses which the student has successfully passed and P1, P2, ..., Pn are the ECTS credits corresponding to each course.

Qualifying points are five (5) and above. The rating scale for evaluating the performance of the student is defined from zero (0) to ten (10) as follows:

- Excellent: from eight and fifty (8.50) to ten (10),
- Very good: from six and fifty (6.50) to eight and forty-nine (8.49),
- Good: from five (5) to six and forty-nine (6,49) ῆ
- Rejected: from zero (0) to four and ninety-nine (4.99).

Article 16

Lecturers of the Postgraduate Programme Studies

16.1. CATEGORIES OF TEACHERS

The teaching work in the MSc is assigned, following a decision of the CC of the MSc, to the following categories of lecturers:

- a) Members of Teaching Research Staff, Special Teaching Staff (S.T.S.), Laboratory Teaching Staff (L.T.S.) and Special Technical Laboratory Staff (S.T.L.S.) of the collaborating Departments or other Departments of the UNIWA or other HEI, with additional employment beyond their legal obligations,
- b) Emeritus Professors or retired members of the collaborating Departments or other Departments of the UNIWA or other universities,
- c) cooperating teachers,
- d) appointed teachers,
- e) visiting professors or visiting researchers,
- f) researchers and special operational scientists of research and technological institutions of article 13A of Law No. 4310/2014 (A' 258) or other research centres and institutes in Greece or abroad,
- g) scientists of recognized prestige, who have specialized knowledge and relevant experience in the subject matter of the MSc.

16.2 ASSIGNMENT OF TEACHING WORK

The assignment of the teaching work of the MSc is carried out by decision of the CC of the MSc, Upon the recommendation of the CRC of the MSc. By decision of the Board of the Faculty of Science, doctoral candidates of the collaborating Departments or the School may be assigned ancillary teaching work, with a subject related to the provided ancillary teaching work of the MSc, under the supervision of a lecturer of the MSc, upon recommendation of the CRC.

16.3. RIGHT TO SUPERVISE THE MSc Thesis

Lecturers of the previous cases a) to f) are entitled to supervise MSc Thesis. Supervision of MSc Thesis may also be assigned to members of the faculty and Special Teaching Staff with a doctorate from the collaborating departments, who have not undertaken teaching work in the MSc.

16.4. TEACHERS' FEES

All categories of lecturers may be remunerated exclusively from the resources of the MSc. No remuneration or other benefits may be paid from the state budget or the public investment programme. The decision of the competent body of the MSc to award the teaching assignment shall determine the amount of the remuneration of each lecturer. In particular, lecturers who are members of the teaching staff may receive additional remuneration for the work they provide for the MSc, provided that they fulfil their minimum legal obligations, as defined in par. 2 of Article 155 of Law 155 of the Law. 4957/2022. The last subparagraph shall apply mutatis mutandis to the members of the faculty (professors of all levels, Special Teaching Staff, Laboratory Teaching Staff) provided that they fulfil their minimum legal obligations.

The obligations of the lecturers include, among other things, the definition and description of the course, the citation of relevant literature, the definition of the way of examining the course, the communication with the students.

16.5 ACADEMIC ADVISOR

The MSc applies the institution of the Academic Advisor by decision of the CC of the MSc. The purpose of the institution is to provide advice to the students during their studies on academic issues in an individualized manner. The expected result is to facilitate the students in completing their studies while at the same time utilising their particular skills and interests in the educational and research process. The Academic Advisor chooses how to approach and advise the students assigned to him/her in each academic year.

Article 17

Adjunct Teaching Assignment to Postgraduate Students

By decision of the CC of the MSc it is possible to approve the participation of PhD students, doctoral candidates and post-doctoral fellows in the provision of auxiliary teaching work in first or second cycle programmes of study.

Reimbursable scholarships may be awarded to students with the obligation to support the educational process and provide auxiliary teaching.

The auxiliary teaching work is defined as the assistance of faculty members in the exercise of their teaching work, the training of students, the conduct of tutorials, laboratory exercises, the supervision of examinations and the correction of exercises.

Article 18

Financing - Financial Management of the MSc.

18.1. RESOURCES AND FINANCING OF THE MSc

The resources and funding of the MSc come from:

- a) Tuition fees,
- b) donations, sponsorships and financial contributions of all kinds Aid,
- (c) legacies,
- (d) funds from research projects or programmes,
- e) own resources of the UNIWA

18.2. PAYMENT OF CUSTOMS DUTIES

The payment of the tuition fees is made by the student himself/herself or by a third natural or legal person on behalf of the student.

18.3. MANAGEMENT AND ALLOCATION OF THE RESOURCES OF THE MSc

The management of the resources of the MSc is carried out by the Special Account for Research Funds (S.A.R.F) of the UNIWA. The resources of the MSc are distributed as follows:

- a) an amount corresponding to thirty percent (30%) of the total revenue from tuition fees is retained by the SARF of UNIWA. This amount includes the percentage of the retention in favour of the SARF for the financial management of the MSc. A decision of the Governing Board of UNIWA, taken by the end of March each year, shall decide whether the remaining amount after deduction of the retention in favour of the SARF shall be transferred to the regular budget or allocated to the creation of projects/programmes through the SARF in order to cover, on a priority basis, the needs of MSc programmes operating without tuition fees and to cover the research, educational and operational needs of the UNIWA. The income of the MSc of paragraphs b) to d) of the above paragraph 1 shall be included in the revenue of the MSc and above shall be subject to the deduction in favour of the SARF. that applies to the revenue from the corresponding funding sources,
- b) the remaining amount of the total revenue of the MSc (70%) is allocated to cover the operating costs of the MSc.

Revenue budgeting methodology:

(indicative)

Revenue - funding			
1	Tuition fees (indicatively, for 30 applicants of which 70% pay tuition fees, after the statutory exemptions).	3.000*21	63.000

As regards revenue, the sources of financing are indicated in accordance with par. 1 and 2 of article 84 of Law No. 4957/2022, and the corresponding amounts - expected receipts from each source of financing. It refers to the budget of a full cycle of the MSc for the students admitted in that year.

Detailed budget for expenditure.

As for expenses, the categories of operating expenses and the corresponding amounts - expected outputs - are indicated.

Specifically, seventy percent (70%) of the operating costs of the MSc are allocated to:

- a) Fees for administrative - technical support,
- b) Teaching staff salaries,
- (c) travel expenses,
- (d) expenditure on equipment and logistical infrastructure,
- (e) expenditure on scholarships.
- f) other operating expenditure (point a. of par. 4 of article 80 of Law no. 4957/2022).

The remuneration of the regular teaching, technical and administrative staff of the Institutions concerns work that exceeds their statutory obligations.

According to par. 2, of article 85, of the law. 4957/ 2022, a percentage of two percent (2%) is set as the maximum percentage of the total annual revenue of each MSc that can be allocated to the project/ programme of par. 1 of the same article.

Expenditure - categories of expenditure		
1	Fees for administrative - technical support	12.000
2	Remuneration of teaching staff	23.500
3	Travel expenses	3.000
4	Expenditure on equipment and logistical infrastructure	2.000
5	Expenditure on scholarships	3.000
6	Other operating expenditure	600
	Partial Total (70%)	44.100
7	Operating costs of the PDO & P.D.A. (30%)	18.900
	Total	63.000

Article 19

PLAGIARISM

The student is obliged to indicate in an appropriate manner whether he/she has used the work and opinions of others in all papers, texts, reports, presentations within the framework of the MSc and the MSc Thesis. In addition, PIs who have used the services and assistance of Artificial Intelligence (AI) for the preparation of papers and other texts that they prepare within the framework of the MSc and/or the MSc Thesis, should include in the preamble of the text a "Statement on the use of generative AI and AI-assisted technologies in the writing process", stating which tool they used and why they needed these services.

Plagiarism is considered a serious academic offence. Plagiarism is the copying of someone else's work, as well as the use of someone else's work - published or not - without proper attribution. The copying of any documentation material, even from studies/texts of the candidate himself/herself, without proper reference, may constitute a decision of the CC of the MSc for the deletion of the candidate. In the above cases, the selection board may decide to remove the candidate after he/she has been given the opportunity to express his/her views on the matter orally or in writing.

Any misconduct or violation of academic ethics is referred for addressing the problem to the CC of the MSc. The misconduct of copying or plagiarism and in general any violation of the provisions on intellectual property by the student during the writing of papers in the context of the course or the preparation of the MSc Thesis.

Article 20

Awarding of degrees -

Swearing-in Ceremony

The PM who has successfully completed the postgraduate studies is sworn in at a public swearing-in ceremony, before the Rector or the Vice Rector as the representative of the Rector and the Presidents of the departments co-organizing the MSc, which takes place after the end of each examination period, at a date and time determined by the Rector in collaboration with the Presidents of the Departments. The oath is not a

component of successful completion of studies, but it is a necessary condition for the award of the Diploma of Postgraduate Studies. For reasons of force majeure (e.g. health reasons, residence or work abroad, military obligations) and upon application to the Departmental Secretariat, the graduate may request to receive the degree without participating in the swearing-in ceremony or to request to participate in a subsequent swearing-in ceremony. Exemption from the obligation to participate in a swearing-in ceremony shall be approved by the CC. Prior to the swearing-in ceremony or exemption from it, graduates may be given a certificate of successful completion of their studies.

A Diploma of Postgraduate Studies awarded may be revoked or cancelled if it is proven that the legal and institutional conditions for its award did not exist at the time of its acquisition. Revocation or cancellation is made following a decision of the Curriculum Committee (CC), which is communicated to the Rector of the institution.

Article 21

Website of the MSc and Presence on Internet

The MSc maintains its website, as well as social media accounts on the internet in English at least, and in any other language that the CC of the MSc deems appropriate, especially in the case of Programmes in cooperation with Universities abroad. The official website of the MSc and the social media accounts on the Internet are constantly updated and contain all information, announcements and news of the Programme. The website of the MSc is the official information site of the students.

Article 22

Evaluation of the MSc

At the end of each semester an evaluation of each course and each lecturer is carried out by the PMs. The evaluation is done using a special evaluation form/questionnaire to be filled in by the PMs. Courses are evaluated in terms of content, teaching style, teaching material and the degree of their relevance to the principles and philosophy of the MSc. Lecturers are assessed at several levels, which may include, but are not limited to, assessment of their knowledge and ability to impart it to students, their preparation, use of up-to-date literature, willingness to answer questions, timely grading and returning of assignments and written examinations, and adherence to course hours.

The annual internal evaluation of the MSc is carried out in collaboration with the Department of Industrial Design and Production Engineering of the Faculty of Electrical and Electronic Engineering and the Department of Industrial Design and Production Engineering/Faculty of Engineering in accordance with the respective procedure of the internal Quality Assurance System of the Faculty of Electrical and Electronic Engineering.

The external evaluation of the MSc is carried out in cooperation with the QAU in the framework of its accreditation, according to the procedure provided by the Hellenic Authority for Higher Education.

In the event that the MSc, during its evaluation according to the above paragraph, is deemed not to meet the requirements for its continued operation, its operation is completed with the graduation of the already registered MSc students, according to the decision of establishment and the regulations of the postgraduate and doctoral programmes of the UNIWA.

Article 23

OTHER PROVISIONS

All issues that are not regulated by the applicable legislation, by the present Regulations of the Postgraduate Studies of the School and by the Regulations of Postgraduate Studies of the UNIWA, are regulated by decisions of the competent bodies of the Postgraduate Studies (Director, Board of Directors, Board of Governors).

This Decision shall be published in the Official Gazette.

Aigaleo, 22 December 2023

The Rector

PANAGIOTIS KALDIS