



ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ
Εθνικόν και Καποδιστριακόν
Πανεπιστήμιον Αθηνών
—ΙΔΡΥΘΕΝ ΤΟ 1837—

Dept. History and Archaeology, NKUA,
Dept. Philology, NKUA,
Dept. History and Philosophy of Science, NKUA,
Dept. Digital Industry Technologies, NKUA,
Dept. History and Archaeology, University of Cyprus,
Institute of Language and Speech Processing, Athena Research Centre

APPENDIX A11

**Internal regulations for the operation of the Interinstitutional
program of graduate studies
“MSc in Digital Humanities”**

Athens, March 2024

ARTICLE 1. SUBJECT-AIM

The aim of the MSc in Digital Humanities is to offer scientific expertise and to be a starting point for the development and expansion of research in Digital Humanities, which is an evolving and of significant scientific, social and economic importance domain, necessary for the protection of the digital heritage internationally.

It offers 4 specializations:

- Data Analytics for Humanities
- 3D Technologies
- Augmented Textual Studies
- Geographic Information Systems

The MSc in Digital Humanities is a joint postgraduate program offered by the following Institutions:

National and Kapodistrian University of Athens

Department of History and Archaeology

Department of Philology

Department of History and Philosophy of Science

Department of Digital Industry Technologies

University of Cyprus

Department of History and Archaeology

ATHENA Research Center

Institute for Language and Speech Processing

The Program provides students with both the theoretical knowledge and practical skills needed in their field, together with a range of career opportunities in academia, research, cultural heritage, and beyond. The program is innovative and offers in-depth knowledge and expertise in the field of Digital Humanities (DH), designed for experts and enthusiasts in Philology, Archaeology, History, Philosophy, Informatics, and Information Science, among others.

Educational Objectives

Master Digital Tools: Gain proficiency in leading digital tools used globally across Museums, Libraries, Archives, and in the vibrant worlds of Multimedia.

GIS Expertise: Learn to leverage Geographical Information Systems (GIS) for innovative research.

Programming Foundations: Build essential programming skills tailored for a digital era.

Language Mastery: Dive into the essentials of Natural Language, Text, Handwritten Resources, and Markup Languages, becoming an adept specialist.

Data Science skills: Embrace the methodology behind Data Sciences, unlocking new perspectives in research.

Database Design and Digital Curation: Design and customize Databases and Data Repositories appropriate to the demands of your work and research, curating and managing digital data, repositories, and ensuring longevity and accessibility.

3D Technologies: Explore 3D technologies to bring Historical Objects, Monuments, and Landscapes to virtual life.

Digital Modelling: Craft digital models, breathing digital life into Cultural and Historical Artefacts.

Career and Opportunities

Editing and Publishing: Forge a path in the dynamic world of editing and publishing, where digital innovation meets traditional methods, dive into content creation, and multimedia storytelling, shaping the future of how we consume literature and academic works.

NLP Processing: Step into the cutting-edge field of Natural Language Processing (NLP), a cornerstone of Artificial Intelligence that powers everything from voice assistants to content analysis tools; transform vast amounts of text into structured data, and contribute to the development of technologies that understand, interpret, and generate human languages

Cultural Heritage: Make a lasting impact on cultural discovery, preservation and interpretation through digital technologies, engage in the digital transformation of Museums, Archives, and Historical sites, bringing the richness of the past to the global audience of the digital age, and specialize in digitizing artifacts, creating virtual tours, or developing interactive educational resources that bridge history and technology.

ARTICLE 2. STRUCTURE AND GOVERNING BODIES

Competent bodies for the operation of the Graduate Programs, in accordance with Law 4957/2022, are:

2.1 At NKUA level, competent bodies are the Committee for Graduate Studies and the Senate.

2.2 At the Department level, competent bodies are:

2.2.1 Committee of the Program of Studies (CPS): has a two-year term and consists of seven (7) members, of whom two (2) come from the Department of History and Archaeology of NKUA and one (1) from each of the other institutions that participate in the operation of the Program.

The CPS is established by decision of the Senate of NKUA following recommendations of the Assemblies of the competent bodies of the institutions that participate in the operation of the Postgraduate Programs.

Members of the CPS come from DEP members, researchers and Professors Emeriti of the participating institutions.

The CPS is responsible for:

a) recommending to the Senate, through the Committee for Graduate Studies, the necessity of amending the Program, as well as extending its duration, b) designating the Director, c) setting up committees for the evaluation of the applications of prospective graduate students and approving their registration, d) assigning teaching work among members of the teaching staff, being able to assign auxiliary teaching work to doctoral candidates of the cooperating institutions under the supervision of a member of the teaching staff, e) setting up committees for the examination of diploma dissertations of graduate students and designating the supervisor of each dissertation, f) certifying the successful completion of the course and awarding the Diploma of Graduate Studies (MSc), g) approving the annual report IPGS, h) exercising any other legal authority.

2.2.2 Director: The Director has a two-year term, renewable without limitation. The CPS designates one of its members as Director. The Director is responsible for: a) chairing the CPS, drawing up the agenda and convening its meetings, b) recommending on issues related to the organization and operation of the Program to the CPS, c) recommending to NKUA bodies on matters related to the effective operation of the Program, d) being Scientific Manager of the program and exercising the

corresponding responsibilities, e) monitoring the implementation of the decisions of the governing bodies of the Program and the Internal Regulations of graduate and doctoral study programs, as well as monitoring the implementation of the budget of the IPGS, f) exercising any other authority defined in the decision establishing the Program. The Director of the IPGS, as well as the members of the CPS, are not entitled to remuneration or any compensation for the performance of the responsibilities assigned to them and related to the performance of their duties.

2.3 Secretarial support a) The Secretariat of the Department of History and Archaeology of NKUA is responsible for the secretarial and administrative support of the Program. b) The Secretary of the Department designates an employee or employees – depending on the number of Programs of Graduate Studies and the workload – as responsible for the Programs of Graduate Studies of the Department. c) As the Program has its own resources, it can hire, in accordance with current legislation, external collaborators for secretarial and administrative support, who are again under the supervision of the Department's Secretariat.

ARTICLE 3. CATEGORIES AND NUMBER OF ADMISSIONS

3.1. The Program accepts graduates from Departments of Humanities and Social Sciences, Informatics and Information Science/Technologies and Digital Industry Technologies, of the country or Departments of recognized cognate institutions abroad, as well as graduates of T.E. I. related cognitive object.

3.2 The maximum number of students admitted to the Master's Program is set at fifteen (15) per specialization, sixty (60) in total. If the number of successful candidates in a direction is less than five (5), the Study Program Committee may decide not to operate the specific specialization for the specific academic year. The applicants of such specializations will be evaluated for the other specializations they have declared in their application.

ARTICLE 4. ADMISSIONS

During the period of April-May, an announcement for the admission of postgraduate students is published and posted on the websites of all participating Departments/organizers.

The applications with the necessary documents are submitted to the Program Secretariat, within a deadline specified in the announcement.

Necessary documents:

- Application for candidacy, in which the reasons for studying at the Program are set out, as well as the specialization in which the candidate is interested in studying. The candidate may indicate in his application more than one specialization in order of priority.
- Detailed CV.
- Copy of B.Sc. and any other degrees, master's and doctoral degrees from universities, or equivalent institutions.
- Publications in peer-reviewed scientific journals or conferences, if any.
- Evidence of scholarships and awards.
- Up to two recommendation letters.
- Evidence of professional or research activity, if any.
- Photocopy of two sides of the ID card.
- A recent photo.

The evaluation of the candidates and the selection of the admitted ones is based on the following criteria and with a rating scale from 0 to 100 evaluation points:

1. Bachelor's degree. The degree grade is multiplied by 4. Maximum number of credits: Forty (40). In case of having more than one degree, the degree with the highest grade is taken into account.
2. Grade in undergraduate courses or thesis related to Digital Humanities: Up to five (5) courses are chosen and/or the bachelor/diploma thesis with the highest grade, the score is added up them and the total is divided by five (5). Maximum number of hours: Ten (10).
3. Additional degrees, master's and doctoral degrees: Four (4) a.m. for each degree beyond the one considered in criterion (1), six (6) a.m. for holding a master's degree, ten (10) a.m. for possession of a doctoral degree, from the country or equivalent, recognized by DOATAP, from foreign institutions, in accordance with the applicable provisions. Maximum number of hours: Twenty (20).
4. Professional project: Two (2) a.m. per certified year of professional experience in a field related to the KPMS Maximum number of hours: Ten (10).
5. Knowledge of foreign languages: Four (4) credit points for the second foreign language Maximum number of hours: Ten (10).
6. Additional evaluation elements (publications in peer-reviewed scientific journals, or refereed conference proceedings, or scholarships, or other awards): Maximum number of credits: Ten (10), which are distributed per additional evaluation element at the discretion of the EU.

Successful candidates should register at the Program Secretariat within thirty (30) days from the announcement of the results.

ARTICLE 5. DURATION OF STUDIES

5.1 The duration of study leading to obtaining a Master's Degree is defined in three (3) academic semesters. Each specialization includes two semesters of attending courses and one semester of preparing the M.Sc. thesis.

5.2 Part-time study is possible, provided that a reasoned request is submitted and approved by the CPS. Students eligible for applying for part-time study are:

- a) students who are provably employed for at least twenty (20) hours per week,
- b) students with disabilities or special educational needs,
- c) students who are athletes in parallel and during their studies belong to sports clubs registered in the electronic registry of sports clubs of article 142 of Law 4714/2020 (A' 148), which is maintained at the General Secretariat for Sports, under the following conditions: ca) for the years in which they earn a distinction corresponding to 1st to 8th place in individual sports during panhellenic championship games in which at least twelve (12) athletes belonging to at least eight (8) athletic clubs participate or they compete in teams of the upper two (2) divisions in group sports or they participate as members in national teams in paneuropean games or other international games under the Greek Olympic Committee, or cb) they participate at least once, during their study in the IPGS for which they apply for parttime status, in Olympic or Paraolympic Games or Olympic Games for Deaf Athletes. Students who fall under this sub-case may enroll as part-time students, provided they submit a request which is approved by the Dean of the School of Science of NKUA. The duration of part-time study cannot exceed twice the duration of regular study. The maximum duration of study applies also in this case.

5.3 An extension of the maximum duration of study is possible, provided that a reasoned request has been submitted by a student and has been approved by the CPS. The length of an extension cannot exceed the normal duration of study in the Program. Hence, the maximum length of time allowed for completion of study is set at eight (8) academic semesters.

5.4 Students who have not exceeded the maximum length of study, provided they submit a reasoned request to the CPS, may interrupt their study for a period of time that does not exceed two (2) academic semesters. Suspension of studies is granted for serious reasons (military service, illness, childbed, absence abroad, etc.). Requests should be reasoned and accompanied by all relevant supporting documents provided by competent public authorities or organizations, which prove the reasons for the requested suspension of study. During the period of suspension of study, student status is suspended and participation in all educational activities is not allowed. The number of academic semesters during suspension of study does not count for the maximum duration of normal study. At least two (2) weeks before the end of his/her suspension period, a student has to enroll again in the program, to continue his/her study with the rights and obligations of active students. After having submitted a relevant request, a student may terminate his/her period of suspension and return to the program, provided he/she has been granted a suspension of 5 study for two consecutive academic semesters. Every request concerning the termination of a period of suspension of study has to be submitted at least two (2) weeks before the beginning of the second semester of suspension.

5.5 The duration of suspension or extension of study is discussed and approved on a case-by- case basis by the CPS.

ARTICLE 6. CURRICULUM

6.1 The Program begins in the winter semester of each academic year.

6.2 To obtain the MSc a total of ninety (90) credits (ECTS) are required. All courses are taught weekly and, as the case may be, may include theoretical lectures, tutorials, laboratory exercises, seminars, assignments, practical training.

6.3 The language of teaching and writing of the master's thesis is Greek and English.

6.4 During their studies, postgraduate students are required to attend and pass postgraduate courses, research and write scientific papers, as well as to prepare a postgraduate thesis.

6.5 The preparation of the diploma thesis takes place in the third semester of studies and is credited with thirty (30) ECTS.

6.6 The possibility of internships is provided, in accordance with the current provisions, in public and private institutions to acquire the required practical experience, under the supervision/cooperation of the supervising faculty member/Researcher. The internship has a duration of eight (8) weeks, takes six (6) ECTS that do not count towards the total ECTS of the study program and is optional.

6.7 Courses are taught live or remotely, in accordance with current legislation and what is defined in article 7 of this regulation and in the Special Regulation for the Organization and Implementation of Distance Education Methods.

6.8 Each specialization of the Program includes two semesters of attending courses and one semester of preparing the postgraduate thesis. Each semester of study corresponds to 30 ECTS. The first two semesters of studies include the mandatory courses of the respective specialization, which all students attending the specific specialization are required to successfully attend. Also in these study semesters, students attend elective courses in order to complete 30 ECTS per semester. As an elective course, they can choose any of the courses offered at K.P.M.S. In the indicative course programs per specialization, which are presented below, the proposed elective courses are listed for each specialization based on their relevance to the subject of the specialization. In the event that a specialization is not offered in a particular academic year due to an insufficient number of students (see paragraph 3.2), then the Committee may decide that the compulsory courses of the specific specialization will not be offered as electives for the students of the other specializations either. Accordingly, the Committee may decide that a specific elective course will not be offered, if the number of students who declare it in the specific academic semester is less than five (5).

The indicative program of courses per specialization is structured as follows:

Data Analytics for Humanities		
1st Semester		
Compulsory sources	Teaching Hours	ECTS
Introduction to Digital Humanities	3	6
Data Analytics	3	6
Image Processing/Analysis	3	6
Databases in historical and archaeological research	3	6
Elective courses (1 of the following)		
Semantic Web	3	6
Human-Computer Interaction	3	6
Quantitative Methods for Textual Data	3	6
Mathematics for Humanities	3	6
Total	15	30
2nd Semester		
Compulsory sources	Teaching Hours	ECTS
Data Analysis for Humanities with Python	3	6
Data Base Systems	3	6
Special Topics in Machine Learning	3	6
Elective courses (2 of the following)		
Text Mining	3	6
Computational Stylistics	3	6
Linguistic Annotation	3	6
Data Visualization	3	6
VR/AR Technologies	3	6
Total	15	30
3rd Semester		
Courses	Teaching Hours	ECTS
Msc Thesis		30
Total		30
TOTAL		90

3D Technologies		
1st Semester		
Compulsory sources	Teaching Hours	ECTS
Introduction to Digital Humanities	3	6
Human-Computer Interaction	3	6
Image Processing/Analysis	3	6
Introduction to 3D Technologies	3	6
Elective courses (1 of the following)		
Data Analytics	3	6
Python Programming for Humanities	3	6
Introduction to GIS	3	6
Total	15	30
2nd Semester		
Compulsory sources	Teaching Hours	ECTS
VR/AR Technologies	3	6
Advanced 3D	3	6
Elective courses (3 of the following)		
Data Base Systems	3	6
Special Topics in 3D	3	6
Data Analysis for Humanities with Python	3	6
Data Visualization	3	6
Advanced GIS (I): Geospatial Analysis and Modelling in GIS	3	6
Σύνολο	15	30
3rd Semester		
Courses	Teaching Hours	ECTS
MSc Thesis		30
Total		30
TOTAL		90

Augmented Textual Studies		
1st semester		
Compulsory courses	Teaching Hours	ECTS
Mathematics for Humanities	3	6
Python Programming for Humanities	3	6
Quantitative Methods for Textual Data	3	6
Introduction to AI and Machine Learning	3	6
Elective courses (1 of the following)		
Stemmatics and Textual Criticism	3	6
Human-Computer Interaction	3	6
Introduction to GIS	3	6
Total	15	30
2nd semester		
Compulsory courses	Teaching Hours	ECTS
Linguistic Annotation	3	6
Text Mining	3	6
Databases and Tools in Ancient Greek Philology	3	6
Elective courses (2 of the following)		
Data Base Systems	3	6
Computational Stylistics	3	6
Data Analysis for Humanities with Python	3	6
Data Visualization	3	6
VR/AR Technologies	3	6
Special Topics in Text Encoding	3	6
Σύνολο	15	30
Γ' εξάμηνο		
Μαθήματα	Teaching Hours	ECTS
MSc Thesis		30
Total		30
TOTAL		90

Geographic Information Systems		
1st semester		
Compulsory courses	Teaching Hours	ECTS
Introduction to Digital Humanities	3	6
Introduction to GIS	3	6
Spatial Analysis and Quantitative Geography	3	6
Elective courses (2 of the following)		
Image Processing/Analysis	3	6
Data Analytics	3	6
Human-Computer Interaction	3	6
Introduction to 3D Technologies	3	6
Mathematics for Humanities	3	6
Total	15	30
2nd semester		
Compulsory courses	Teaching Hours	ECTS
Advanced GIS (I): Geospatial Analysis and Modelling in GIS	3	6
Advanced GIS (II): Satellite Remote Sensing and Image Analysis	3	6
Elective courses (3 of the following)		
Advanced 3D	3	6
Special Topics in 3D	3	6
Data Analysis for Humanities with Python	3	6
VR/AR Technologies	3	6
Total	15	30
3rd semester		
Courses	Teaching Hours	ECTS
Msc Thesis		30
Total		30
TOTAL		90

Courses Description

	Introduction to Digital Humanities
Description	<ul style="list-style-type: none"> ● Introduction to Digital Humanities. Key objectives, historical development. ● Definitions and issues in Humanities research. ● The contribution and utilization of computer science and digital technologies in the fields of Humanities research. ● Concepts, terms and presentation of Data analytics, 3D and GIS and their relationship with the Humanities. ● Challenges and problems of the Digital Humanities area.
Learning Outcomes	<p>After the end of the courses the student will</p> <ul style="list-style-type: none"> ● has understood what Digital Humanities is, its role and importance ● has an oversight of digital technologies applied to Humanities. ● understands key concepts and research streams of Digital Humanities. ● has familiarized himself with terminologies and concepts related to the digital technologies of the Study Program.

	Mathematics for Humanities
Description	<ul style="list-style-type: none"> ● Set Theory and Elements of Mathematical Logic with references to their basic concepts (union, intersection, symmetric difference, etc.). Propositional, categorical calculus, inference and their simple applications in language game creation and sentence/text comparison. ● Mathematical Calculus (Functions), with references to the basic concepts of functions (graph, continuity, derivative, integral, etc.) with related exercises and examples. ● Linear Algebra (Vectors, Matrices, Linear Spaces), with examples of representation in space and simple applications of vectors and matrices to represent collections of text, compare text, and extract terms/non-important words. ● Probability and Statistics, with references to the basic concepts (random variables, bounded probability, discrete and continuous distributions, mean, variance, probability functions and Bayes approximation) and their simple applications in the description of texts/corpses of texts. ● Simple Python scripts to implement simple computational models of mathematical concepts.

Learning Outcomes	<p>After the course the student will be able to</p> <ul style="list-style-type: none"> • understand and handle basic mathematical concepts and tools as a background for research in Digital Humanities.
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	Python Programming for Humanities
Description	<ul style="list-style-type: none"> • Introduction to programming languages. • The Python programming language; usage for text processing. • Variables, strings, data input, control flow, lists, functions, tuples, sequences, files, output formatting, graphs.
Learning Outcomes	<p>After the course the student will be able to</p> <ul style="list-style-type: none"> • to understand the paradigms of programming languages that exist, • use the Python language to solve a problem.

	Quantitative Methods for Textual Data
Description	<ul style="list-style-type: none"> • Descriptive and inductive statistics: main concepts • Statistical hypothesis testing • Multivariate statistical analysis applied to linguistic data: Logistic Regression, Discriminant Analysis, Principal Component Analysis, etc. • R programming language and its use in quantitative linguistic data analysis.
Learning Outcomes	<p>After the course the student will be able to</p> <ul style="list-style-type: none"> • understand basic concepts of descriptive and inductive statistics, • to apply experimental methods to the analysis of linguistic data, • to use multivariate analysis methods in linguistic data, • to utilize the R programming language for the quantitative analysis of linguistic data.

	Data Analytics
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Description	<ul style="list-style-type: none"> • Data sources <ul style="list-style-type: none"> ○ Data categories (statistics, structured, unstructured, big data, etc.). • Collection, pre-processing and management of data in different formats, CSV, XML, JSON etc. • Data representation based on vector model - Text transformation. • Structured data management (arrays, vectors, databases, accessibility, data sharing, data governance, ethics and privacy). • Data analysis – Relevance and similarity -Elements of statistical analysis – Data quality • Presentation, visualization and exploitation of data • Functional utilization of data (from the end user's perspective) • Applications and examples of data collection, processing, presentation and analysis in the humanities.
Learning Outcomes	<p>After the course the student will be able to</p> <ul style="list-style-type: none"> • Understand the concept of data and data analysis in the Humanities • Represent and organize data • Select appropriate models for their analysis • Recognize patterns in the data and draw useful conclusions from their processing • Manage large volumes of data • Use effective methods of data utilization

Data Analysis for Humanities with Python	
Description	<ul style="list-style-type: none"> • Programming with Python • Programming with Python in the Humanities • Data Analysis Applications with the Python language: <ul style="list-style-type: none"> ○ Thematic analysis of texts ○ Linguistic analysis of texts ○ Stylistic analysis of texts ○ Image analysis algorithms ○ Analysis of geographic data
Learning Outcomes	<p>After the course the student will be able to</p> <ul style="list-style-type: none"> • To develop applications based on the Python programming language to analyze textual, image and geographic data derived from datasets developed by Humanities researchers.

	Databases in historical and archeological research
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Description	<ul style="list-style-type: none"> • Archival collections, Archives, data and metadata: concepts and definitions. • Cultural data documentation standards (e.g. CIDOC CRM) • Digital libraries of historical and archaeological research (e.g. Library of Parliament, ELIAS, Anemi, Gallica). • Audiovisual archives and their utilization in historical and archaeological research (e.g. ERT ASKII Digital Archive, Academy of Athens) • Software tools for organizing bibliographic and research data, Documentation tools (e.g. bibliographic data bases / Zotero, documentation bases / Heurist) • History-Archaeology and the Internet: The diffusion of "historical knowledge", myths, stereotypes, etc., digital public sphere (social media). • Case studies: The databases and repositories of the History and Archeology laboratories of NKUA and R.C. Athena. • National and European Repositories and European Infrastructures (RIs) for the Humanities (e.g. DARIAH)
Learning Outcomes	<p>After the course the student will be able to</p> <ul style="list-style-type: none"> • to know the main digital sources and tools for History and Archaeology. • to know and utilize databases, repositories and research infrastructures of historical and archaeological research.

	Linguistic Annotation
Description	<ul style="list-style-type: none"> • Advanced topics on Palaeography. • Descriptive logic of handwritten texts. • Classification and organization of handwritten information. • Transcription-oriented logic. • Annotation Levels and interconnection of the transcribed information. • Fundamentals of Lachmann, Stemmatics and Textual Criticism. • Annotation of transcriptions, morphology, syntax and semantics of handwritten (scientific and literary) texts. • Introduction to XML– DTD – XML Schema. • TEI, Epidoc. • Annotation of Handwritten Information and Typographical Information.
Learning Outcomes	<p>After the course the student will be able to</p> <ul style="list-style-type: none"> • to transcribe and compare manuscripts • to create critical editions of texts • organize and manipulate text corpora • annotate and encode texts utilizing existing standards and tools for encoding (morphological, syntactic, semantic)

	Image Processing/Analysis
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Description	<ul style="list-style-type: none"> • Image digitization • Digital image capture devices • Image transformations • Image Registration • Image Segmentation • Image enhancement • Image coding, compression and transmission techniques • Image analysis, feature extraction, image categorization • Image restoration • Applications of image processing and analysis in the humanities: Optical Character Recognition in printed and handwritten texts, object recognition through image analysis, image reconstruction of objects.
Learning Outcomes	<p>After the course the student will be able to</p> <ul style="list-style-type: none"> • Understand the basic concepts of digital imaging. • To understand, apply and utilize image processing and analysis tools in the context of character and object recognition.

	Introduction to AI and Machine Learning
Description	<ul style="list-style-type: none"> • Knowledge representation (propositional logic, first-order logic, semantic networks, etc.). • Inference mechanisms, knowledge bases. • Machine learning problems as optimization problems • Goals and applications of machine learning • Machine learning algorithms for natural language processing • Multi-criteria optimization approaches (common optimization) and dealing with overfitting (overfitting) • Overview of basic supervised learning methods, regression and classification models • Unsupervised learning models, clustering, matrix factorization and latent semantic indexing algorithms • Deep learning neural network methodologies and architectures • Examples and applications in the humanities.

Learning Outcomes	<p>After the course the student will be able to</p> <ul style="list-style-type: none"> ● To understand the basic methods of knowledge representation and inference ● Be able to formulate machine learning problems as optimization problems and be familiar with basic multicriteria optimization approaches for machine learning ● To apply in Python programming language basic machine learning algorithms in text processing and analysis.
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	Special Topics in Machine Learning
Description	<ul style="list-style-type: none"> ● Deep learning and Natural Language Processing (NLP) - training various types and architectures of neural networks. ● Language models, vector representations of words. ● Recursive neural networks. ● Models of long-term memory. ● Convolutional neural networks and models that include attention mechanisms ● Machine learning applications in image analysis and text annotation.
Learning Outcomes	<p>After the course the student will be able to</p> <ul style="list-style-type: none"> ● apply and use deep learning tools with neural networks to natural language processing, image analysis and text annotation problems ● understand various types of neural networks and their potential applications in deep learning architectures

	Text Mining
Description	<ul style="list-style-type: none"> ● Main techniques for text mining and text analysis. ● Supervised and unsupervised methods for knowledge extraction from texts. ● Statistical approaches which can be generally applied to arbitrary textual data in any natural language.

Learning Outcomes	<p>After the course the student will be able to</p> <ul style="list-style-type: none"> • understand techniques for extracting knowledge from texts using machine learning techniques, • be familiar with clustering and text classification techniques, • use the corresponding Python and R libraries for textual data mining and analysis applications.
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	Databases and Tools in Ancient Greek Philology
Description	<ul style="list-style-type: none"> • Introduction to the Databases of Ancient Greek Philology (TLG, L'Année philologique, Trismegistos, LDAB, CEDOPAL, APh, Arachne, BP3, papyri.info, DDbDP, APIS, HGV, Digital LOEB Classical Library, etc.). • Comparison with Databases of similar disciplines (e.g. Epigraphische Datenbank, Packhum, Sylloge Nummorum Graecorum) • Scientific use of the Databases of Ancient Greek Philology. • Embedding the use of Epidoc beyond the inscriptions: The case of the databases of Ancient Greek Philology and Papyrology. • Familiarization with SoSOL on the example of its implementation in the Papyrological Editor. • Use of Leiden+ in Databases of Ancient Greek Writing. • Electronic journals in the field of Ancient Greek Philology and its related scientific disciplines. • Electronic publications in XML, the example of Pylon and the Papyrological Publication Platform (P3). • Data extraction from databases of Ancient Greek Philology in the example of DDbDP beyond the interface accessible to all. • Data assertion into databases of Ancient Greek Philology and Papyrology in the example of DDbDP and Papyrological editor in Leiden+.
Learning Objectives	<p>After the end of the course the student</p> <ul style="list-style-type: none"> • will have knowledge of all the databases of Ancient Greek Philology and its related scientific branches, • will have gained experience in using and further familiarity with Epidoc, SoSOL, Leiden+. • will be able to extract data from the databases by doing searches beyond the interface accessible to all • will be able to assert data into databases of Ancient Greek Philology in collaboration with the managers of these databases having done an internship at papyri.info • will be able to actively handle electronic journals that publish in XML with the aim of facilitating data transfer between scientific electronic journals and specialized philological data repositories.

	Data Base Systems
Description	<ul style="list-style-type: none"> • Introduction to Database Management Systems - Types of Databases: Relational, Semi-structured, Script-centric. • Relational Databases: <ul style="list-style-type: none"> ○ Conceptual Modeling (E-R Model). ○ The Relational Model. ○ Database scheme. ○ Query Languages (SQL). • Information Retrieval Systems. • Digital Libraries. • Data Integration.
Learning Outcomes	<p>After the course the student will be able to</p> <ul style="list-style-type: none"> • understand the types of databases and their differences • design a relational database, insert data into it, design queries, etc., • adequately handle the basic concepts of Information Retrieval Systems

	Human-Computer Interaction
Description	<ul style="list-style-type: none"> • Human-machine communication and interactive systems design. • Modeling the human as a computer system user. Cognitive models, perception and representation, attention and memory, representation and organization of knowledge. • Conceptual models, user models, user group models, interaction models. • Interaction styles, methods and rules for designing interactive systems. • Usability • valuation of interactive systems. • Collaboration technologies and disability technology. Tactile Interaction. • Interaction in the World Wide Web Environment. • Interactivity in ubiquitous computing.
Learning Outcomes	<p>After the course the student will be able to design and evaluate interactive systems.</p>

	Data Visualization
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Description	<ul style="list-style-type: none"> • Analysis, modeling and visualization of data and large volumes of data (big data), with the aim of effective communication and understanding by their users. • Characteristics of the visual perception. • Visualization methods (eg line/bar/pie/area charts & graphs, scatter/bubble/polar/funnel plots, treemaps, etc.) for the visual representation of different categories of data. • Interactive visualization techniques. • Visual presentation techniques: Dataflow, Pivot tables, Animate Shift of Focus, Overview & detail, Semantic Zoom, Magic lens, etc. • Data stories creation issues. • Evaluation of interactive visualizations.
Learning Outcomes	<p>After the course the student will be able to</p> <ul style="list-style-type: none"> • utilize tools for the analysis of real-life data sets. • create interactive visualizations.

	Introduction to GIS
Description	<ul style="list-style-type: none"> • Fundamentals of Geographic Information Systems (GIS) in Archeology and History. • Types of geographic information (vector and raster) • Property tables and types of geographic information • Basic concepts of geodetics, coordinate systems and transformations. • Cartographic projections, spatial data structures. • Digitization of spatial data sets. • Georeferencing images. • Spatial interference. • Cartographic composition.
Learning Outcomes	<p>After the course the student will be able to</p> <ul style="list-style-type: none"> • Utilize a geographic information system for applications in the Digital Humanities. • To create Maps of historical and archaeological data in combination with other geographical data. • Understand the different projection systems that will be useful in GPS mapping and georeferencing maps in a GIS environment.

	Advanced GIS (I): Geospatial Analysis and Modelling in GIS
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Description	<ul style="list-style-type: none"> • Creation and editing of Digital Territory Models their derivatives. • Geospatial analyses, • Raster map creation. • Spatial and thematic queries. • Exploratory data analysis and geostatistical methods. • Visibility Analysis • Least Cost Analysis • Geomorphological analyses • Classification and thematic visualization • Density maps • Thiessen analyses • Risk assessment models
Learning Outcomes	<p>After the course the student will be able to manage different heterogeneous geospatial information, to perform algebraic operations between raster maps, to do spatial analysis and to be able to create different forecast models of archaeological sites or risk models for the management and protection of archaeological resources.</p>

	Advanced GIS (II): Satellite Remote Sensing and Image Analysis
Description	<ul style="list-style-type: none"> • Image interpretation • Sensor Analysis and satellite systems • Geometric and radiometric corrections • Radiometric enhancement • Spatial filtering • Pseudo-color compositions • Spectral signatures • Vegetation indicators • Classification analysis • Confusion tables and accuracy • Principal Component Analysis (PCA) • Change detection • Anomaly detection • Time series analysis • Interferometry
Learning Outcomes	<p>After the course the student will be able to combine and apply various processing techniques, including classification processing, extract spectral signatures, analyze time series of satellite images, detect changes in a satellite image, and calculate vegetation indices through integration and synthesis with other existing geodata and online services.</p>

	Introduction to 3D Technologies
Description	<ul style="list-style-type: none"> • Introduction to the new technologies of 3D representation (3D modeling) and their applications in the Humanities. • 3D modeling basics. • Elements of differential geometry and shape analysis. • Digital representation of shapes - 3D data structures. • Elements of a geometric modeling system. • Software for the creation of 3D models (Blender, Unity, etc.). • 3D digitization. • 3D printing. • Applications in the humanities dissemination of cultural heritage through digital media.
Learning Outcomes	<p>After the end of the course the student will:</p> <ul style="list-style-type: none"> • understand 3D representation technologies and their application advantages in the humanities • be familiar with 3D modeling, digitization and printing • know software for the creation of 3D models and applications used in the humanities

	Advanced 3D
Description	<ul style="list-style-type: none"> • Basics of Machine vision • 3D digitization technologies: <ul style="list-style-type: none"> ○ 3D scanners and depth mapping systems ○ Photogrammetry and applications ○ Principles of digital photography ○ 3D geometric representation through automated and semi-automated ground and aerial photogrammetry data collection ○ Approaches using GPS and GIS. • Photogrammetry software

	<ul style="list-style-type: none"> • Advanced applications in the humanities: <ul style="list-style-type: none"> ○ 3D digital copies of findings from archaeological excavations, monuments and remains from various historical periods. ○ 3D models in the context of an archaeological and historical research ○ Digital copies of exhibits and synthetic museum exhibitions. ○ Development of 3D digital museums and exhibitions.
Learning Outcomes	<p>After the end of the courses the student will</p> <ul style="list-style-type: none"> • be familiar with machine vision components, 3D digitization technologies and Photogrammetry software • utilize these technologies in various fields of the humanities

	Special Topics in 3D
Description	<ul style="list-style-type: none"> • 3D analysis and data processing. • 3D digital reconstruction/restoration of objects/monuments with documentary sources and use of 3D digital copies of fragmentarily preserved documents. • Digital Representation of Reality (Reality Modeling): <ul style="list-style-type: none"> ○ 3D digital landscapes - humanities educational tools and educational games. ○ Reconstruction of a landscape of the past. • 3D printing: <ul style="list-style-type: none"> ○ Printing of dummies used in training, research and demonstration. ○ Prosthetic reconstruction of finds and monuments.
Learning Outcomes	<p>After the end of the course the student</p> <ul style="list-style-type: none"> • will understand elements of 3D data analysis and processing and deepen their application in 3D digital reconstruction / restoration. • will become familiar with the digital representation of reality and its application in the creation of 3D digital landscapes. • will deepen into the application of 3D printing in the humanities with an

	emphasis on model printing and prosthetic reconstruction.
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	VR/AR Technologies
Description	<ul style="list-style-type: none"> • Modern techniques for highlighting exhibits and collections (digital storytelling, holograms, etc.). • VR/AR technologies for creative/artistic expression. • Copyright management and security issues.
Learning Outcomes	After the course the student will be able to develop virtual exhibitions of cultural content using virtual and augmented reality tools.

	Spatial Analysis and Quantitative Geography
Description	<ul style="list-style-type: none"> • Critical analysis of spatial data. • Modeling spatial interpolation trends and point distributions. • Regression models and cluster analysis. • Analysis of point patterns and detection of hot spots (hotspots). • Geographically Weighted Regression (GWR). • Applied statistics for space-time clustering.
Learning Outcomes	<p>After the course the student will be able to</p> <ul style="list-style-type: none"> • Use data science and machine learning algorithms and tools to analyze spatial data and understand the causes and effects of spatial phenomena. • Use programming languages such as R, or Python to retrieve, process, visualize and model geographic data • Apply cartographic and geographic theory concepts to map and model large geographic data • Conduct research using the data science and GIS methods taught in the course

	Semantic Web
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Description	<ul style="list-style-type: none"> • Metadata. • Semantic Web and Ontologies. • Vocabularies and Thesauri. • Domain Ontologies. • Data Mappings and Transformation. • Linked Data. • Utilization of the above in text analysis.
Learning Outcomes	<p>After the course the student will be able to</p> <ul style="list-style-type: none"> • to understand the technological stack of the Semantic Web (URIs, XML, RDS/S, OWL, SPARQL, Linked Data), • design an Ontology and describe data based on it (Protégé, SKOS, triplestores), • transform existing data into RDF data.

	Stemmatics and Textual Criticism
Description	<ul style="list-style-type: none"> • "Textus receptus", Lachmann method and structured examination of "witnesses". • Text preserved in a single manuscript. • Text preserved in several manuscripts. • Codicology Basics. • Time, paternity and locality. • Stemmatics theory. • Error taxonomies. • Text Editing. • Special terminology. • Comparison of typescript and handwritten text production.
Learning Outcomes	<p>After the course the student will be able to</p> <ul style="list-style-type: none"> • understand fundamental principles of text restoration and editing, • utilize and use stemmatics principles for manuscripts, • distinguish the historical and contemporary techniques of text criticism.

	Computational Stylistics
Description	<ul style="list-style-type: none"> • Computational analysis of text style through natural language processing techniques. • Automatic author recognition, author profile recognition. • Ethical issues raised by such technologies as well as issues of authors' rights to anonymity.

Learning Outcomes	<p>After the course the student will be able to</p> <ul style="list-style-type: none"> • to describe the basic types of stylometry problems. • determine the appropriate linguistic features for solving specific authorship problems. • use appropriate machine learning methods to solve specific computational stylistics problems. • evaluate ethical parameters of using the above methodology.
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	Special Topics in Text Encoding
Description	<ul style="list-style-type: none"> • Scripts of Antiquity, the Middle Ages and the Renaissance (Capitalis quadrata, Monumentalis, Uncialis, Rustica capitalis, Insularis maiuscula/minuscula, Visigothica minuscula, Carolingia minuscula, Protogothica, Gothica textualis, quadrata, rotunda, Humanistica). • Writing materials and techniques. • Process that precedes handwritten text production. • Strata of handwritten information. • Representation of text strata in space and time. • Association of script with "hand". • Palimpsests.
Learning Outcomes	<p>After the course the student will be able to</p> <ul style="list-style-type: none"> • to transcribe a handwritten text. • distinguish the strata of handwritten information. • to propose text restoration. • understand the concept of original hand-written texts in relation to script styles.

ARTICLE 7. DISTANCE LEARNING

7.1 Synchronous distance learning: The educational process may use methods of synchronous distance learning exclusively and only in cases of force majeure or extraordinary circumstances, mainly when person-to-person teaching is not possible or when the use of NKUA infrastructure for educational, research and other activities is impossible, as is provided for by the legislation in force. In those cases, the Digital Governance Unit of NKUA is responsible for supporting distance learning, as well as for issues regarding the protection of personal data.

7.2 Asynchronous distance access to educational material: NKUA maintains an electronic platform accessible to persons with disabilities, through which asynchronous distance access to educational material is available. On this electronic platform, it is possible to upload educational material per

course, which can include lecture notes, presentations, exercises, indicative solutions of these, etc., provided that current legislation concerning the protection of personal data is observed. Educational material of all kinds is provided exclusively for the educational use of students and is protected by Law 2121/1993 (A' 25), provided all relevant conditions are met. No video-recorded lectures replacing in-person teaching will be uploaded on the platform.

ARTICLE 8. EXAMINATIONS AND EVALUATION OF GRADUATE STUDENTS

8.1 The educational work of each academic year is structured in two study semesters, the winter and spring semesters, each of which includes at least thirteen (13) weeks of teaching and three (3) weeks of examinations. Repeat examinations for courses offered in the winter and spring semester are given in September.

8.2 It is foreseen that, whenever a lecture is cancelled for any reason, this lecture should be given on a new date; in such cases, details (new date and time) must be posted on the Program's website.

8.3 Attendance of courses/seminars etc. is mandatory. A student is considered to have attended a course (and hence has the right to participate in the corresponding examination) only if he/she has attended at least 80% of the lectures corresponding to this course. Otherwise, the graduate student is obliged to repeat this course during the next academic year. If the percentage of a student's absences exceeds 60% for all courses, the student may be considered for deletion from the student registry. If such an issue arises, it is discussed by the CPS.

8.4 The evaluation of students and their performance in the courses they are required to attend within the framework of the Program takes place at the end of each semester with written or oral examinations or is based on intermediate written assignments or a combination of all of the above. The evaluation method is determined by the instructor of each course. When conducting written or oral examinations, as evaluation methods, the integrity of the process must be guaranteed. Grading is done on a scale of 1-10. Examination results are announced by the instructor and are submitted to the Secretariat of the Program and the Department of History and Archaeology, NKUA, within four (4) weeks at the latest after the examination date. In the event that the above limit is repeatedly exceeded by an instructor, the Director must inform the CPS.

8.5 The contribution (percentage) of the homework assignments into the final grade of each course is determined for each course separately, after a recommendation by the corresponding instructor and is mentioned explicitly in the Study Guide of the Program.

8.6 Alternative assessment methods may be applied to deal with emergency needs or circumstances resulting from force majeure, such as conducting written or oral examinations by electronic means, provided that the integrity of the alternative process of assessment is guaranteed.

8.7 It is possible to use alternative assessment methods for the performance of students with disabilities or special educational needs, after a decision of the SC and recommendation of the Committee for Disabled Students of the Department of History and Philosophy of Science, taking into account relevant instructions of the Disabled Students Accessibility Unit of NKUA.

8.8 The evaluation of students of second level programmes of study that are organized by methods of distance learning may be conducted through distance examinations, provided that the integrity of the process is guaranteed.

8.9 In the event of illness or recovery from a serious illness, instructors are advised to facilitate, in any way they consider appropriate, students (e.g. through oral distance examinations). Instructors should make sure that, throughout oral examinations, they are not alone with the students being examined.

8.10 In case of failure in any course, the student is entitled to repeat the exam two more times (three in total) in the September exam or in the exam in which the course is taught. However, the workshop or exercise that is graded independently, is secured and not repeated, as long as their attendance was deemed successful.

8.11 A grade correction is allowed, if an obvious oversight or cumulative error has occurred, provided a written request by the instructor responsible has been submitted and approved by the CPS.

8.12 If a student fails to pass the same course more than three (3) times, the procedure defined by the applicable legislation is to be followed.

8.13 Examination papers are kept mandatorily and under the care of the instructor responsible for each course for two (2) years. After this period, examination papers are annulled and are destroyed after a decision has been taken by the CPS and a destruction protocol has been approved – unless a relevant criminal, disciplinary or any other administrative procedure is pending.

8.14 For the calculation of the mark of a degree, the weight of each course is taken into account, which is expressed by the corresponding number of ECTS credit units. The number of ECTS credit units of each course is also the weight indicator of this course. For the calculation of the mark of a degree, the grade of each course is multiplied by the corresponding number of credit units (of the course) and the total sum of the individual products is divided by the total number of credit units required for the award of the degree. This calculation is expressed by the following mathematical formula:

$$\text{Grade} = \frac{\sum_{k=1}^N \text{BM}_k \cdot \text{PM}_k}{\Sigma \text{PM}}$$

where:

N = number of courses required to obtain the corresponding degree

BM_k = grade of the course k

PM_k = credit units of the course k

ΣPM = 90, the total number of credits for obtaining the corresponding degree

For obtaining the Master's Degree every postgraduate student must attend and be successfully examined in all the compulsory and the required number of electives from the offered courses of the Program and to prepare a postgraduate thesis, thus accumulating ninety (90) ECTS.

ARTICLE 9. PREPARATION OF GRADUATE DIPLOMA DISSERTATION

9.1 The assignment of a M.Sc. thesis is made after attending all the courses of the study program and the examination in them

9.2 The M.Sc. thesis is required to be independent, original, have a research character and be prepared in accordance with the specifications posted on the website of the Program.

9.3 After a student has submitted a request, mentioning the proposed title of the diploma dissertation and the name of the supervisor, which is accompanied by an abstract of the proposed dissertation, the SPC designates the supervisor and the three (3) members of the examination committee, one of

whom is the supervisor. The M.Sc. thesis should be written in Greek or English; the language is defined along with the approval of the students' application.

9.4 The title of the dissertation may be modified, provided the student has submitted an application to the SC of the IPGS, and the supervisor has consented to it. This application should be accompanied by a short justification of why the title should be modified.

9.5 For the approval of a dissertation, the author must present it before his/her three member examination committee. The committee members provide a grade on a scale of 1-10 to the MSc. Thesis and the final grade is obtained as the average of the grades of the three committee members. The supervisor must submit to the Secretariat the transcript of the examination of the MSc. thesis, signed by the members of the three-member examination committee with the corresponding score. The thesis is approved if its grade is equal to or greater than 7. This procedure and is mandatory for the submission of the swearing-in application by the student. If the master's thesis is not approved, the student has the possibility of re-examination for one more time, either to request a change of topic or a three-member examination committee, as long as the total study time is not exceeded. In case of failure again, the student will be granted a course attendance certificate with detailed grades and his studies will automatically and definitively end. Should the examination committee approve the theses, it is obligatory for them to be archived within the University of Athens' Digital Repository "PERGAMOS."

9.6 The supervisor and the other members of the examination committee of a MSc. dissertation must belong to one of the following categories of teaching staff of the IPGS: a) members of Teaching Research Staff (DEP), Special Educational Staff (EEP), Laboratory Educational Staff (EDIP) and Special Technical Laboratory Staff (ETEP) of the cooperating Departments or other Departments of NKUA or another Higher Education Institution (AEI) or a Higher Military Educational Institution (ASEI), who are employed beyond their legal obligations, b) Professor Emeriti or retired members of DEP of the cooperating Departments or other Departments of NKUA or another AEI, c) cooperating instructors, d) authorized instructors, e) visiting professors or visiting researchers, f) researchers and special scientists from research and technological institutions of article 13A of Law 4310/2014 (A' 258) or other research centres and institutes in Greece or abroad. After a decision of the CPS, it is possible to assign the supervision of diploma dissertations to members of DEP, EEP, ETEP and EDIP of NKUA or another AEI, who have not undertaken teaching at the Program.

9.7 The CPS decides the number of theses that can be assigned to each supervisor.

9.8. Changing the topic or the members of the three-member examination committee is possible only once per student, after his/her application to the Secretariat and the CPS decision.

9.9 Whenever a graduate diploma dissertation contains unpublished results, at the author's request and the supervisor's consent, it is possible to post on "PERGAMOS" the abstract, with the proviso that the full dissertation will be posted later.

ARTICLE 10. OBLIGATIONS AND RIGHTS OF GRADUATE STUDENTS

10.1 Graduate students have all the rights and benefits provided for students of the first cycle of studies, until the end of any granted extension of study, except for the right to receive free textbooks.

10.2 NKUA guarantees students with disabilities or special educational needs accessibility to suggested textbooks and teaching (<https://access.uoa.gr/>).

10.3 In order to access the infrastructure and services of the University of Athens (email, eclass, etc.), the students must have a user account. In order to become a user the students must apply for the creation of your Electronic Institutional Account. The secretariat will guide through the process.

10.4 The NKUA Career Office provides counseling support for students on study issues and professional career prospects (<https://www.career.uoa.gr/ypiresies/>).

10.5 Graduate students are invited to participate in and attend seminars of research groups, literature review discussions, visits to laboratories, conferences/workshops on subjects related to that of the IPGS, lectures or other scientific events of the IPGS etc.

10.6 At the beginning of each semester's courses, students are required to declare to the K.P.M.S. Secretariat the courses they intend to attend during the current semester.

10.7 The CPS may decide the deletion of graduate students from the student registry, if they:

- exceed the maximum number of absences,
- have failed in the examinations of one or more courses and have not completed successfully their study, in accordance with what is defined in these regulations,
- exceed the maximum length of study in the Program, as defined in these regulations,
- have violated written provisions regarding the treatment of disciplinary offences by the competent disciplinary bodies,
- do not pay the prescribed tuition fees,
- submit a deletion request themselves.

10.8 In the event of deletion of a student from the student registry, the student may apply for a certificate concerning the courses they have attended successfully.

10.9 In order for students to be able to register in their MSc. another major specialization, apart from the one they have entered, they can, after the completion of the first three semesters, register the additional courses of the second specialization (at least the mandatory ones). In this case, students will pay tuition fees for each semester they attend courses, which will be equal to the fees of the first or second semester of studies. In order to qualify for the second course, a second master's thesis is not required. The swearing-in will take place after the successful completion of the second course, while the postgraduate diploma will indicate both courses. Students may stop following the second course at any time and request their swearing-in (provided they have completed their obligations for the course they were originally enrolled in), without being entitled to a refund of the tuition fees they have paid.

10.10 Students may participate in international student exchange programs, such as ERASMUS+ or CIVIS, in accordance with existing legislation. In such an event, the maximum number of ECTS credit units that can be recognized amounts to thirty (30). This possibility is provided to students after the first semester of their studies. To participate in exchange programs, students should apply to the CPS and follow the terms of the program.

The Program can also be attended by students from international student exchange programs, such as the ERASMUS+ program, in accordance with bilateral agreements in effect.

10.11 The K.P.M.S. provides the opportunity for students to do an internship in public or private institutions. The internship receives six (6) ECTS that do not count towards the ninety (90) ECTS of the regular curriculum. Internship can also be done through the exchange programs, e.g. Erasmus +, in accordance with current legislation.

10.12 The postgraduate students can enroll in other post-graduate programs of the same or other University of the country or abroad in the context of educational or research cooperation programs in accordance with the applicable legislation.

10.13 Postgraduate students may apply for recognition of courses they have successfully attended at other post-graduate programs of the same or other University of the country or abroad (properly recognized Institutions, in accordance with the legislation). The decision on the relevance of the courses of the Curriculum to the courses mentioned in the applications of the postgraduate students and the relative acceptance or rejection of their application is taken by the CPS. This recognition includes the entry of the corresponding score received by the student in the corresponding post-graduate program of origin with the credit units of this Program

10.14 It is possible to study in parallel in an undergraduate study program and in a postgraduate study program or in two (2) Postgraduate Programs of the same or another Department, the same or another University.

10.15 At the end of each semester, an evaluation of each course and each teacher is carried out by the postgraduate students (see article 19).

10.16 Postgraduate students can request the issuance of a diploma supplement in Greek and English.

10.17 For their participation in the "MSc in Digital Humanities (Digital Humanities)", postgraduate students pay tuition fees totaling four thousand (4,000) euros, which will be distributed as follows: 1,500 euros for each semester of teaching, per specialization, per student and 1000 euros for the semester in which the thesis is prepared. The deadlines for payment of the tuition fee will be determined by a decision of the Study Program Committee.

ARTICLE 11. FEE WAIVERS

11.1 Students who satisfy financial or social criteria and conditions of excellence in the first cycle of studies, are exempt from tuition fees, in accordance with current legislation. This exemption is granted for participation in only one post-graduate program. In any case, the number of students who are exempt from tuition fees may not exceed thirty per cent (30%) of the total number of students enrolling in the Program for each academic year.

11.2 A request for exemption from tuition fees may be submitted after the completion of the student selection process. The financial situation of a candidate is in no case a reason for non-selection in the IPGS.

11.3 Students who receive a scholarship from another source are not entitled to an exemption, nor are citizens of non-EU countries.

11.4 Examining the criteria for exemption from tuition fees is carried out by the CPS and a reasoned decision is issued to accept or reject the applications submitted.

11.5 If current legislation sets an age criterion, it is recommended that, for reasons of good administration and equal treatment, the date of birth of students should be considered December 31 of their year of birth.

11.6 Members of the EEP, EDIP, ETEP categories, who are accepted as supernumeraries in accordance with provision 3.3 of these regulations, are exempt from paying tuition fees.

11.7 In case that members of the same family up to the second degree are studying at the same time at the IPGS «Logic», it is possible to provide a reduction by 50% in the tuition fees paid.

ARTICLE 12. GRANTS AND PRIZES

For the realization of their studies, students can receive scholarships and awards.

12.1 These scholarships are divided into:

a) **excellence scholarships** (up to four, at least one scholarship per functioning specialization), which are awarded to the outstanding students based on their performance in the 1st year courses. The scholarships exempt their beneficiaries from the tuition fees of the following semester of courses.

Conditions

Postgraduate students who have completed the first year of studies can apply for excellence scholarships. Candidates must not hold a salaried position in the public or private sector nor receive a scholarship from any other body for the specified period.

Criteria

- grade performance in courses (with an average greater than or equal to eight)
- successful completion of all courses according to the curriculum
- individual and family income

In the case of a tie and coincidence of income, a lottery is held. In case the student renounces the scholarship, it is given to the next in the ranking order.

Procedure

After the invitation, the students submit to the Secretariat of the Department of History and Archeology, NKUA an application accompanied by the following supporting documents:

- 1) detailed rating
- 2) responsible statement, signed through the gov.gr platform, with the following text: "I do not hold a salaried position in the public or private sector nor do I receive a scholarship from any other organization for the specific period of time"
- 3) recent tax clearance certificate (individual and family)

The CPS examines the nominations and decides on them.

b) **reciprocating scholarships**. The CPS may grant up to four (4) remunerative scholarships for conducting auxiliary teaching work in first-cycle study programs to postgraduate students depending on the number of admissions and the financial possibilities of the Program. The amount of the reciprocating scholarship may cover part or all of the tuition fees and is calculated based on actual working hours. The hourly fee is decided at the beginning of each year by the CPS. This decision is communicated to the students.

The cost of reciprocating scholarships may be charged to the budget of projects/programmes, which are financed by private, international and own resources of article 230 of Law 4957/2022, as well as co-financed projects of the Enterprise Agreement for the Development Framework (ESPA).

The conditions, criteria and procedure of paragraph 12 (a) for the awarding of excellence scholarships apply to the awarding of remunerative scholarships.

Auxiliary teaching work is defined as the assistance of the members of the Teaching Research Staff during the exercise of their teaching work, the exercise of first cycle students, the conduct of tutorials, laboratory exercises, the supervision of exams and the correction of exercises . The auxiliary teaching project must be approved by the Assemblies of the respective departments to which the first-cycle curriculum belongs.

12.2 Awards of Excellence. The Program can award excellence awards to the first student of each series and each direction that operates upon completion of the courses of the 1st and 2nd semesters, following a decision of the Curriculum Committee. The prizes have no financial benefit. The award is signed by the Director of K.P.M.S. and the Chair of the Department.

Conditions

1. Average of A' and B' semester courses greater than / equal to eight (8).
2. Completion and successful examination in the examination of February (Semester 1) and June (Semester 2) in the regular years of study (Semester 1 and Semester 2 of each series).

Procedure

After the June score is submitted, the Curriculum Committee reviews the scores of the students in the series, and if the previous conditions are met, ranks the students in descending order (in terms of their average score) and decides the awarding of prizes.

Average: In all cases of awarding scholarships or prizes the average is calculated by the formula:

$$\text{Average} = \frac{(\sum_{k=1}^N \text{BM}_k \cdot \text{ΠM}_k)}{\sum \text{ΠM}}$$

where:

N = number of courses required to obtain the corresponding degree

BM_k = grade of the course k

ΠM_k = credit units of the course k

ΣΠM = 90, the total number of credits for obtaining the corresponding degree

ARTICLE 13. INFRASTRUCTURE AND FUNDING

13.1 For the proper operation of the Program's classrooms and seminars, auditoriums equipped with audio-visual media and laboratories of the participating Departments and Research Center ATHENA are available.

13.2 The administrative and secretarial support of the Program is done by the Secretariat of the Department of History and Archeology, NKUA.

13.3 The financing of the K.P.M.S. can come from:

- a) tuition fees,
- b) donations, sponsorships and all kinds of financial support,
- c) legacies,
- d) resources from research projects or programs,
- e) own resources of the Higher Educational Institution (A.E.I.) and
- f) the state budget or public investment program.
- g) any other legal source.

13.4 The payment of tuition fees is carried out by the student himself or by a third natural or legal person on behalf of the student, as long as this is provided for in the founding decision of the Program.

13.5 The management of the resources of the Program is carried out by the Special Research Funds Account (ELKE) of NKUA.

13.6 The resources of the Program are distributed as follows:

- a) an amount corresponding to thirty percent (30%) of the total revenue derived from tuition fees is withheld by the ELKE. This amount includes the withholding percentage in favor of the ELKE for the financial management of the Program. When the income of the Program come from donations, sponsorships and all kinds of financial support, legacies or resources from research projects or programs, the deduction is carried out in favor of ELKE which applies to income from corresponding funding sources,
- b) the remaining amount of the total income of the Program is available to cover its operational costs.

ARTICLE 14. TEACHING ASSIGNMENT/TEACHERS

14.1 The teaching work of the Joint Graduate Studies Program (JMS) is assigned, following a decision of the Study Program Committee, to the following categories of teachers:

- a) members of Teaching Research Staff (D.E.P.), Special Educational Staff (E.E.P.), Laboratory Teaching Staff (E.D.I.P.) and Special Technical Laboratory Staff (E.T.E. P.) of the Departments participating in the K.P.M.S. or other Departments of EKPA or another Higher Educational Institution (A.E.I.) or Higher Military Educational Institution (A.S.E.I.), with additional employment beyond their legal obligations, if the K.P.M. .S. has tuition fees,
- b) emeritus professors or retired members of D.E.P. of the Department or other Departments of NKUA or other HEIs,
- c) collaborating professors,
- d) authorized teachers,
- e) visiting professors or visiting researchers,
- f) researchers and specialist functional scientists of the ATHINA Research Center or other research and technological bodies of article 13A of Law 4310/2014 (A' 258) or other research centers and institutes at home or abroad,
- g) scientists of recognized prestige, who have specialized knowledge and relevant experience in the subject matter of the Program.

14.2 All categories of teachers may be paid exclusively from the resources of the Program. Payment of remuneration or other benefits from the state budget or public investment program is not permitted. By decision of the CPS, the amount of each teacher's fee is determined. Especially the lecturers who have the membership status of D.E.P. may be paid additionally for work they offer to the Program, as long as they fulfill their minimum legal obligations, as defined in par. 2 of article 155 of Law 4957/2022. The last paragraph applies proportionally to the members of the E.E.P., E.D.I.P. and ETEP, as long as they fulfill their minimum legal obligations.

14.3 The CPS may request from the Assemblies of the cooperating Departments the assignment of auxiliary teaching work to the PhD candidates of the Department, under the supervision of a teacher of the Program.

14.4 The assignment of the teaching work is carried out by decision of the CPS.

The decisions of the CPS on the assignment of the teaching work must include the following elements:

- a) the full name of the teacher,
- b) his/her status (e.g. member of D.E.P., E.E.P., E.D.I.P., E.T.E.P. etc.),
- c) the type of teaching work assigned by teacher (course, seminar or workshop),
- d) the number of teaching hours per course, seminar or workshop.

14.5 The distribution of teaching work takes place before the start of the academic year for both the winter and spring semesters. In the event that the distribution of the teaching work cannot be carried out simultaneously for both academic semesters, the decision will be taken before the start of each academic semester. With a reasoned decision of the CPS, the assignment of teaching work may be modified during the academic year.

14.6 The lecturers, during the period of time they are on educational leave or suspension of duties, may provide teaching work to the Program, if they judge that their program allows it, provided of course that based on the current conditions, this is essentially and practically possible, an issue which must be competently judged on a case-by-case basis.

ARTICLE 15. AWARD OF MSc. Degree

15.1 Students complete their study for obtaining the MSc. Degree upon having completed the minimum number of courses and ECTS credit units required, as well as having completed successfully their graduate diploma dissertations. The CPS verifies the completion of study in order to grant the MSc. Degree to a student.

15.2 At the completion of the procedure described above, students are issued with a certificate of completion of study, their student status is annulled and their participation in collective administrative bodies of the University ceases.

15.3 The MSc. Degree certifies the successful completion of study and carries a mark, to two decimal places, on the following scale: Excellent (8.5 to 10), Very Good (6.5 to 8.5 inclusive) and Good (5 to 6.5 inclusive).

15.4 The type of the MSc. Degree is common to all Departments and Schools of NKUA and is included in the Institution's Graduate and Doctoral Studies Regulations.

15.5 In the context of the K.P.M.S. an MSc in Digital Humanities is awarded.

ARTICLE 16. CONFIRMATION CEREMONY

16.1 The oath is not a constituent type of the successful completion of the studies, but it is a necessary condition for granting the title document of the MSc. Degree. The certification takes place within the framework of the Assembly of the CPS and in the premises of the Department of History and Archeology of the EKPA, in the presence of the Director of the Program, the Chair of the Department, Dean of the School or his/her Deputy and, if possible, possibly a representative of the Rector.

16.2 Requests for the swearing-in ceremony of postgraduate students in the Great Hall of Ceremonies of the Central building are considered on a case-by-case basis by the Rector, based on an assessment of the possibilities and the number of swearing-in parties to be declared by the Program Secretariat. in the Directorate of Education and Research.

16.3 Postgraduate students, who have successfully completed the Program, in exceptional cases (studies, residence or work abroad, health reasons, etc.), can apply to the Department Secretariat exemption from the reporting obligation. The exemption from the obligation to report is approved by the Chair of the Department and the Vice-Rector of Academics, International Relations and Outreach.

16.4 The MSc. Degree is a public document and its specific type is defined by a decision of the NKUA Senate. The name of the participating Departments and institutions, and the title of the Program, as

well as any additional information defined by the applicable legislation and the written provisions as well as and from the decisions of the NKUA Senate.

16.5. The awarding of the MSc. Degree is the responsibility of the CPS. As long as the postgraduate student has fulfilled all his/her obligations, the Secretariat informs the Director of the Program, who raises the issue of awarding the MSc. Degree to the student. Before the award date and after the relevant decision of the CPS, the Secretariat can grant the student a certificate of completion of studies upon application.

ARTICLE 17. EVALUATION

17.1 Evaluation by the Hellenic Authority for Higher Education

The Program is evaluated in the context of the periodic evaluation/certification of the Department organized by the Hellenic Authority for Higher Education (HAHE). In this context, the HAHE evaluates the overall effect of the work carried out by the Program, the degree of fulfillment of the goals set at its establishment, its sustainability, the absorption of graduates in the labor market, the degree of its contribution to research, the internal evaluation of the program by its students, the purposefulness of extending its operation, as well as other data regarding the quality of the work produced and the contribution of the IPGS to the national strategy for higher education. If the Program, during the process of its evaluation, is deemed not to meet the conditions for continuing its operation, it will operate until the graduation of all already registered students, in accordance with the founding decision of the Program and the Graduate and Doctoral Studies Regulations of NKUA.

17.2 Internal evaluation

The internal evaluation is carried out on an annual basis by the Quality Assurance Unit (MO.DI.P.) of EKPA. All those involved in the implementation of the actions and activities of the Program participate in the internal evaluation process and more specifically, the students, the members of the teaching staff, the administrative and technical support staff and the members of the CPS.

The internal evaluation process is carried out in accordance with the applicable legislation, the Institution's Internal Quality Assurance System, the directives and standards of HAHE and in accordance with the corresponding directives and regulations of the University of Cyprus and the ATHENA Research Center. The internal evaluation includes the evaluation of the teaching work, as well as all its academic functions and actions.

The following are evaluated in more detail:

- a) the content of the Curriculum according to the most recent research in the specific subject, so as to ensure the modern character of the Program,
- b) the workload of the courses, as well as the progress and completion of postgraduate studies by the students,
- c) the degree of satisfaction of the students' expectations from the Curriculum, the services offered to support their studies and the learning environment,
- d) the courses of the Program on a six-monthly basis through questionnaires filled in by the students.

The results of the internal evaluation are recorded in a special report drawn up by the MO.DI.P, in which the findings of the evaluation, the proposed improvement actions, the timetable for their implementation, the people involved and the required resources are described in detail and are discussed in the CPS in order to draw conclusions aimed at ensuring the sustainability of the Program, the high level of studies, the improvement of its benefits and the efficiency of its teachers. In particular, the results of the evaluation in question are utilized in the revision of the parameters of the study program such as the updating of the course material, the introduction of alternative forms of

evaluation, the addition or removal of courses, etc. in relation to the current data and perspectives of the specific scientific field and market developments, but also the suggestions of students and teaching staff regarding points that can be improved.

The Annual Internal Evaluation Reports, the monitoring indicators and the relevant tables are planned to be published on the Program's website. in order to facilitate the information process and the possibility of feedback for all interested parties.

ARTICLE 18. DURATION OF OPERATION

The Program it will operate until the academic year 2032-2033 as long as it meets the criteria of the internal and external evaluation, in accordance with the current legislation.

ARTICLE 19. TRANSITIONAL PROVISIONS

Already registered students complete their studies in accordance with these Regulations. For matters not defined in the current legislation, in the Regulations for Postgraduate and Doctoral Studies of NKUA, in the present Regulations, or in the Special Regulations for the Organization and Implementation of Distance Education Methods of the Program, competent to decide are the governing bodies of the Program.