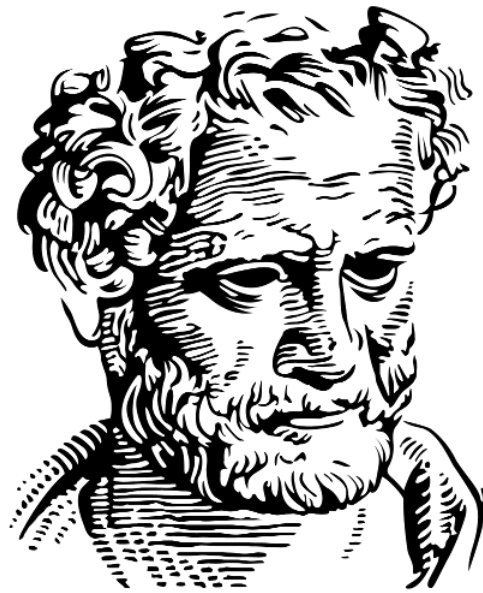


DEMOCRITUS UNIVERSITY OF THRACE
POLYTECHNIC SCHOOL
CIVIL ENGINEERING



ACADEMIC GUIDE
POSTGRADUATE PROGRAM
MANAGEMENT OF
HYDROMETEOROLOGICAL DISASTERS
2022 - 2023

XANTHI - 2022

DEMOCRITUS UNIVERSITY OF THRACE
MASTER'S DEGREE PROGRAM ACADEMIC GUIDE
MANAGEMENT OF HYDROMETEOROLOGICAL DISASTERS
ACADEMIC YEAR 2022 - 2023

EDITOR:
Akratos Christos, Associate Professor

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THRACE



Greek Thrace is a small part of the geographical area known in history as the "Greater Thrace". Incorporated into Greece in 1920, it is located on the northeastern mainland and adjoins eastward with Turkey and northward with Bulgaria, with which it is connected by road and rail.

The Greek Thrace constitutes, along with the An. Macedonia, special administrative region of the Greek state with the capital of Komotini. It consists of three prefectures (Xanthi, Rodopi and Evros) with the capitals of Xanthi, Komotini and Alexandroupolis, respectively. The prefecture of Evros also belongs to Samothrace, one of the most beautiful islands of the Aegean Sea.

In addition to agriculture and livestock farming, which were the traditional branches of the economy in the region, the development of the industry has been seen in the last few years.

The Commission's proposals are in line. Thrace, due to its key geographical location, has developed into a "gateway" of Europe to Turkey and the East, as well as an important transportation hub to and from the central Balkan region. These developments, combined with the development of the University in four cities of Thrace (Xanthi, Komotini, Alexandroupolis, Orestiada), result in the gradual development of the area and the rise of the living and spiritual level of its inhabitants.

In Greek Thrace are important archeological sites such as Abdera (home of Democritus from which the name of the University was derived), Maroneia, Mesembria, Samothrace etc. Also in Thrace belong to extremely important wetlands, such as the delta rivers Nestos and Evros and the lagoon of Vistonida, and one of the most important national parks in Greece where some of the most rare species of birds of prey in Europe, the forest of Dadia, live.

XANTHI

Built amphitheatrically at the foot of the Rhodope mountain range, Xanthi is located in Thrace (Northern Greece), the crossroads of the Black Sea and the Aegean, Europe and Asia. The Kosythos River divides the city into the western part, where the old and modern part of the city are located, and on the eastern side, the

“Samakov district” which can be proud of a rich natural environment. Both parties still maintain their traditional atmosphere, charming the visitors with their courtesy and their greatness. The narrow cobbled streets of the old town are decorated with gorgeous mansions, whose architecture is a wonderful blend of local and Ottoman architecture, and of Greek neoclassical architecture. Along with the Byzantine churches and picturesque squares, the old town of Xanthi could be said to be an open museum, the glory of which remains intact over time. The modern part of the city is located in a beautiful square with the central clock and the renovated tobacco warehouses, such as the famous “P”, on Kapergon Street, which was named after the shape of the buildings of 1890.

her, which happens every Saturday.

Take a deeper taste of the rich history of the region through your visit to the Museum of Folk Art, Museum of Natural History, Municipal Art Gallery and Abdera archeological site. Numerous cultural events organized throughout the year offer one more important reason to visit Xanthi. Festivals Old

In September, where all events take place in the narrow cobblestone streets of the old town of Xanthi, the Youth Festival and the Music Festival of the Nestos River in summer, are especially popular among young people.



Text by Greek National Tourism Organization

www.visitgreece.gr

XANTHI COASTLINE

All over the southern part of N. Xanthi stretches beautiful beaches, open to the Thracian Sea, which are delimited west by the Nestos Delta and east by the lagoons of the complex of Vistonida: Beaches and spaces well organized and equipped are those of Erasmio, Mangana, Myrdatos, Abdera and Mandra, access from the city is fast and the road network is sufficient. These beaches stand out for their cleanliness, the shallow waters, vast beaches and picturesque coves that attract holidaymakers but also artisanal fishermen. These areas offer a sublime beauty in the winter months as well as many opportunities for bird watching.

OLD CITY FESTIVAL

The second festive institution in Xanthi is the Old Town festival, which have been uninterrupted since 1991, take place with the advent of Autumn. Most of these events take place in the traditional preserved settlement of Xanthi, the so-called "Old Town", in the alleys of which the hangars of the cultural and carnival clubs are erected to offer food and drink. The club's haunts are revealed, while festivals similar to those of Carnival are held in the same place.

CARNIVAL OF XANTHI

The longest-lived institution is that of the Blonde Carnival - Thracian Folklore Holidays started in 1966. Born in an era of urbanization and industrialization - a time critical to economic issues and identity issues - it has erased a fifty-year course, passed various phases of development and mutation reaching our days. The Carnival Blonde has to show a series of events around music, dance and theater, exhibitions with visual or other content, lectures, book presentations and film screenings. During these two weeks of events in the city of Xanthi very important position occupies another form of social performance, the feast, which is encountered in many different places and forms. The institution closes with the carnival parade and the custom of burning the Tzaros effigy.



THE YOUTH CELEBRATIONS

The third festive institution, the Youth Celebrations, took place in late Spring, started in the same year as the Old Town Celebrations and, as the title reveals, it is focused on the student youth of the city. These celebrations enable students to become protagonists both on the stage and the audience. Thus the inhabitants of the city know the events of the urban area either through a process of creation - production or through a participation procedure - consumption.

HADJIDAKIS FESTIVAL

This is the Hadjidakis Festival "Xanthi: Cities of Musical School Dreams" which was inaugurated in 2014, in honor of the great Greek Composer who was born and raised in Xanthi. The festival offers the opportunity to Music Schools from all over Greece to be presented at the Municipal Amphitheater of the city, but also in selected squares in various parts of the city.



THE DEMOCRITUS UNIVERSITY OF THRACE



HISTORICAL BACKGROUND

The Democritus University of Thrace was founded in July 1973 by the Law Decree No. 87 of 27 July 1973, and began its operation in the academic year 1974-1975. As mentioned, it was named "Democritus" in honor of the ancient Greek philosopher Democritus, who hailed from the city of Abdera in Thrace. The administration of IFRIC it is based in Komotini, which is also the capital of the Administrative Region of Eastern Macedonia and Thrace. The IFRS it plays an important role in the strengthening of the national and cultural identity of the region of Thrace and contributes to the high level of higher education studies in Greece. With the quality of teaching and the level of his research, he has secured a place among the best Greek S.A.I. As a Higher Educational Institution, IFRIC is a Public Law Corporation with full self-government. It is supervised and subsidized by the State through the Ministry of Education and Religious Affairs. The Board of Directors currently operates eight Faculties which include twenty Departments, in four cities of Thrace: five (5) in Xanthi, nine (9) in Komotini, four (4) in Alexandroupolis and two (2) in Orestiada. In IFRS More specifically, the following Departments are currently operating per city (in brackets the starting year)

the function of each Department):

XANTHI

1. Department of Civil Engineering (1974)
2. Department of Electrical Engineering and Computer Engineering (1975)
3. Department of Environmental Engineering (1995)
4. Department of Architecture Engineering (1999)
5. Department of Production and Management Engineering (2000)

KOMOTINI

1. Department of Law (1974)
2. Department of Physical Education & Sport Science (1984)
3. Department of History and Ethnology (1991)
4. Department of Social Policy (1994)
5. Department of Greek Literature (1995)
6. Department of Social Work (1996)
7. Department of Economic Sciences (1999)
8. Department of Language, Literature and Culture of Black Sea Countries (2000)
9. Department of Political Science (2009)

ALEXANDROUPOLI

1. Department of Medicine (1985)
2. Pedagogical Department of Municipal Education (1986)
3. Department of Education Sciences at Preschool Age (1987)
4. Department of Molecular Biology and Genetics (2000)

ORESTIADA

1. Department of Forestry and Environment and Natural Resources (1999)
2. Department for Rural Development (1999)

ADMINISTRATION OF D.U.Th.

The administration of the Board of Directors shall be exercised by the Council of the Foundation, the Rector and the Senate. The Senate consists of the Rector, the Deans of the Faculties, the Heads of the Departments. The manner of determining the representation of the Presidents shall be determined by a decision of the Rector. Also a representative of the undergraduate students, a representative of the postgraduate students and a representative of the doctoral candidates, where they exist, are elected for an annual term without the possibility of re-election. It shall also include a representative of each category of staff, with a two-year term, without possibility of re-election, elected by a single ballot by universal suffrage of the members of the relevant category of staff and participating, with the right to vote, when matters relating to matters concerning the relevant category of staff are discussed. The exact composition and the number of members of the Senate with the right to vote, as well as the conditions and any matter relating to the implementation of the above, shall be laid down in the Agency and the Rules of Procedure of the Board respectively. The Senate meetings are attended without the right to vote by the rector's deputies and the Secretary of the Foundation. The Rector and Vice-Rectors in the academic year 2022-2023 are the following:

Rector : F. Maris

Professor of the Department of Civil Engineering

Vice Chancellor of Finance, Planning and Development: C. Chalioris

Professor of Department of Civil Engineering

Vice-Chancellor of Academic Affairs and Student Care: M. Grigoriou

Professor of Department of Molecular Biology and Genetics

Vice-Chancellor of Research and Lifelong Learning: G. Broufas

Professor of Department for Rural Development

Vice Chancellor of Administrative Affairs:

V. Gourgoulis

Professor of Physical Education and Sports Science



On the page Democritus of the University of Thrace:

<http://www.duth.gr>

ADMINISTRATION OF THE SCHOOL OF ENGINEERING

The governing bodies of the Polytechnic School are the General Assembly, the Quaestura and the Dean. The General Assembly consists of the General Assemblies of the Departments while the Dean, the Presidents of the Faculty of the and a representative of the students of each Department participate in the College.

The Quaestor is elected for three years by an electoral body composed of the total of electoral bodies that elect the Presidents of the Departments which belong to the School.

For the academic year 2022-2023 the administration of the Polytechnic School is:

Dean :
B. Papadopoulos
Professor of Department of Civil Engineering

Deputy Secretary: T.
Spanidou

This page is a Technical School Jewel:
<http://www.eng.duth.gr>

LIBRARY OF THE SCHOOL OF ENGINEERING

The Library has 75,000 volumes and 2000 titles of magazines, with the current subscriptions being mostly electronic. The loan is based on the Senate Rules of Operation of the Central Library approved by the Senate.

The library is accessible from the internet. On its websites interested parties can search the books of both the School of Engineering and all other Faculties and Departments of the University as well as all the academic libraries of the country that have corresponding network services.

The library over the HealLink network can be accessed on 5,000 magazine titles. Instructions on how to search the information are provided by the library staff. Also students can be informed about and from the respective pages of the library on the Internet.

Library Hours:

Monday - Friday: 07.00 - 14.30

Hours of Reading Room: Monday -

Sunday: 07.00 - 24.00

Library page:

<http://www.lib.duth.gr>

STUDENT CARE

Responsible: E. Kravaritou

Feeding

To the students of the Polytechnic School free feeding under conditions. Information on the categories of students who are entitled to free food and the required supporting documents and the dates of submission are provided by the office Student Care Xanthi.

Housing

The Student House (FC) has a large number of rooms that are distributed and are located in the same area of the University Campus. It also has a restaurant with the capacity to serve 1,000 people.

Criteria for admission to VAT is the financial situation in proportion to the number of members of the student's family and others appointed by the Senate of the IPOC. the rules of operation of VAT.

Applications with the relevant supporting documents are submitted for the new-entrants within the period of time that the enrollments in the respective Schools last. No application shall be admissible beyond this period.



Health Care

The students of the University are provided with medical, hospital and pharmaceutical care (N.E.S. 327/1983 (FEK 117/7-9-83(a))). Medical care is provided by the city doctors who are affiliated with the State.

Health, medical and hospital care are entitled to undergraduate and postgraduate students of S.A., nationals and foreigners. After the period, provided for as a minimum duration of undergraduate studies of a course increased by two (2) years, the benefits provided for students, such as Health and Hospital Care, Performance Grants and Scholarships for Aid Loans, Free Food, Accommodation and Supply of Textbooks or Other Aids, Mobility Facilitation etc., are not granted. (Art. 9 par. Point 10 of Annex I. 2083/92).

ADVISORY AND ACCESSIBILITY STRUCTURE (CONT.)

The Advisory and Accessibility Structure (AAS) of the Democritus University of Thrace was established with the number 40/51/12.12.2017 Decision of the Senate. It started operating in 2018 and during the initial phase of its operation it is funded by the NSRF 2014-2020, through the Act "Support of Social Care Interventions of Students NT".

Purpose of the AAS it is the promotion of constructive learning, academic success and the socialization of the students of the ICP, with peculiarities and disabilities.

The aim of the AAS is:

- Equal access to educational activities of students with special needs and disabilities, through the adaptation of the educational environment, the utilization of supporting IT technologies and the provision of services facilitating access to spaces and knowledge.
- Personal development and improvement of the social life of students with peculiarities and disabilities, inside and outside the education spaces.

In particular, actions are being developed in the AAS to address problems related to the following issues:

- Studies: learning difficulties, difficulties in studying and understanding, difficulties in decision-making, inability to concentrate, testing anxiety, incompatibilities of educational spaces, means and materials due to disability.



- Academic life: difficulties in adjusting to the educational environment, difficulties in organizing and managing time, negative attitude towards the subject studies.
- Social life: difficulties in friendly and family relationships, isolation, low self-esteem, difficulties in acceptance and integration in social environment.
- Other problems: psychosomatic disorders, emotional problems, addictions.

The Central Bureau of the AAS it is based in Komotini and Branches in the cities of Xanthi, Alexandroupolis and Orestiada.

It is scientifically supervised by members of the Board. on a related subject of its work and consists of the Counseling and Psychosocial Support and the Accessibility Department.

Communication:

Call center: 25310-39050, -39163 E-mail: dosyp@duth.gr

Website of the Board:

<https://dosyp.duth.gr>



Department of Counseling and Psychosocial Support

The Department staffed of Psychiatrist, psychologists and social workers.

Services

- Individual counseling for students who have difficulties with studies (learning difficulties, difficulties in studying and understanding, inability to concentrate, stress tests) or with other issues of a psychological and social nature.
- Periodic assessment of the psychosocial needs of students.
- Group counseling.
- Networking of students with health services and social services of the region .
- In case of need to address.

Workshops / Seminars

Organization of seminars and workshops with an experiential and interactive character aimed at the empowerment and personal development of students

Volunteerism

Organize a network of volunteers with the aim of creating socialization and voluntary activities in the wider community.

Accessibility Pane

The Department is staffed by Electrical Engineers and Computer Engineers.

Please contact your doctor or pharmacist

- Adapting the education environment by utilizing digital accessibility tools;
- Designing accessible library and internet workstations.
- Create a digital environment for counseling, psychosocial support and accessibility actions.
- Convert educational materials and projects to an accessible format.
- Personalization of assistive technology by applicant student and training in the use of assistive technologies and software.

Accessibility Services to Buildings and Infrastructure of AAS

- Study on the accessibility of buildings and other infrastructure.
- Evaluate amendments to improve accessibility of IFRS buildings and provide knowhow to other entities.

Teaching Assistance Software

Offered free software and assistive technology applications.

Volunteerism

The Accessibility Department collaborates with volunteers on actions to convert educational materials into accessible format.

STUDENT PASS

Students submit their application for the pass electronically through the website: <https://submit-paso.minedu.gov.gr> using Article 10 personal the codes electronic access on the portal of the School of Engineering: <https://unistudent.duth.gr/>.

Thereafter, and after the application is approved by the relevant Secretariat, each student may receive his Bulletin from the specific point of delivery chosen at the time of the application. The delivery points have been identified as certain commercial stores as they have been identified by the project contractor.

The final cost of receiving the Bulletin, after the relevant competition, is 2.56 euro (incl. VAT).

The new pass is a credit card type, meets all the modern specifications, with built-in photo of the beneficiary, a special security hologram and its elements in Latin characters (for use on the outside).

The beneficiaries of the new special ticket are :

(1) Students of the first course of study provided that they have not exceeded the $n+2$ years of study (where n is the duration provided for in the indicative program of studies).

(2) Students of the second course of study for as many years as they study, in accordance with the indicative program.

(3) Students of the third course, for 4 years from the date of their enrollment.

Please note that students who have exceeded the 29th year are not entitled to a pass (29) year of their age, on the day of submission of the application or have been admitted with qualifying examinations. Furthermore, the discontinuation of student status for any reason automatically entails termination of the right to hold the pass, which in this case is returned to the secretariat of the Department concerned.

Each Secretariat is connected to the Central Information System through a dedicated online application from which to monitor students' applications.

First-year students, until 30 September, can make use of public transport, with the corresponding discounts, by showing the certificate of registration in the Department, issued by the Secretariats and their police identity, until they receive their official Bulletin.



TRANSPORT

The students are served (for their move to the Campus where the rooms of the Student Dorm are located, the Student Club restaurant and the new buildings of the Department), by means of transport chosen by the University, as well as by emergency routes University - Student Club during lunch hours starting from the bridge of the Samakov district.

CULTURAL EVENTS

Students have at their disposal a number of Cultural Events of the Municipality of Xanthi, as mentioned above. Also the two student clubs "Bridge" and "Inmates of the Student Center of Xanthi" organize cultural events of photography, cinema etc.

MILITARY CONSCRIPTION

Students who have not fulfilled their military obligations are entitled to deferment of conscription for the completion of their studies.

The postponement shall be granted for a period equal to that resulting from the accounting aggregation of the year of granting the postponement and the study years plus two.

Further information can be obtained from the local recruitment offices.



COMPUTE CENTER - NETWORK MANAGEMENT CENTER

Director: N. Kasapidis

Personal: N. Grigoriadis

I. Plevridis

P. Hatzopoulos

The Computational Center of IFRS it began operating in 1976 with the installation of the first UNIVAC 90/30 computer system and was basically used by the Polytechnic School. Today the Computational Center - Network Management Center of MESS is an institutionalized body, operating by organization, approved by Senate decision, and serves the entire University that is spread throughout Thrace, with DUTHnet, it has a plethora of computers, and all modern applications such as email, high-speed Internet access and more.

By decision of the Senate (21/01/18, September 2014) from September 2014 a new Commission with the title of 'Communications and Networks Committee' of IFRIC which replaces the previous Computational Center and Network Management Committees, and Telecommunications Committee that are being abolished.

Y.K. Website - N.A. :

<http://www.noc.duth.gr>



OFFICE FOR INTERCONNECTION BETWEEN STUDIES AND CAREER

Head: D. Tsitsis

The Liaison Office of the Democritus University of Thrace was established as part of the Operational Program of Education and Initial Vocational Training (EPAE). Through this newly established institution, the Liaison Office is an information center for students and graduates of our University, aspiring to become a link between the University and the Production Community, so that it can help its students and graduates to reach the professional rehabilitation phase smoothly. The special feature of the office lies in the fact that due to the diaspora of the University in more cities, there are currently three different branches in the cities of Xanthi, Komotini and Alexandroupolis.

Study Liaison Office website and

In the course of a career:

<https://dasta.duth.gr>

The absence of staff/students from room/lab photographs is due to privacy reasons

ERASMUS

Coordinator for the Civil Engineering
 Department: I. Kagalu, Professor.

The Erasmus+ program is the main education and training program in the EU, focusing on student and staff mobility and cooperation between higher education institutions. Erasmus+ supports the creation and establishment of the European Charter of Higher Education, thus increasing innovation, growth and employment.

Through the program, the students are offered the following possibilities:

1) Student exchanges for course monitoring at European universities with mutual recognition of educational programs by sending and hosting universities. This is done with the implementation of the provisions of the European Credit Transfer and Accumulation System (European Credit Transfer and Accumulation System ECTS) and a similar system at the host university. Under the Bilateral Agreements that the University has concluded with foreign institutions, the students of the Civil Engineering Department of the IPOA. may go to study at one of these Institutions for a period which may not be less than 3 months or more than one year. The conditions for participation are detailed at the website, <http://erasmus.duth.gr/node/4>.

2) Practical traineeships lasting 2 to 4 months, in bodies such as Business, Non-Governmental Organizations, Research Centers, Educational Institutions, diplomatic missions etc from students from all courses (pre-graduate - postgraduate - candidates)

and recent graduates of the Board of Directors. Q. I. in European countries (<http://erasmus.duth.gr/node/16>). In both cases, the Erasmus+ program provides participants with a scholarship to cover the additional costs they will face, exemption from foreign tuition fees and recognition of the period of studies they are undergoing at the foreign University or organization. The International Relations Office of the Board of Directors has the general and financial management of the Erasmus+ Program for the outgoing and incoming mobility of students for studies and placements, teachers for teaching and staff for training.

For the Department of Civil Engineering, Academic Coordination is the Erasmus Committee of the Department, which is composed of 3 members of the faculty. The Committee shall define in advance the procedure for the selection of students to be included in mobility, publish calls for expression of interest and select students on the basis of criteria. The Erasmus+ Committee of the Department has drawn up a roadmap to assist outgoing students on the actions before and after their movement with a view to making the most useful use of the time of study at the host institution or organization and to recognizing their progress.

For studies abroad the Department of Civil Engineering IPOA has concluded the following active Cooperation Agreements with universities (by country):

Germany: [Ruhr-Universität Bochum](#)

[Technische Universität Dortmund](#)

Spain: [Universidad de Granada](#)

Italy: [Università degli Studi della Tuscia](#)

[Politecnico di Bari](#)

Cyprus: [Cyprus University of Technology](#)

Hungary: [Buda pest i Műs zaki és Gazdaságtudományi Egyetem](#)

Romania: [Technical University of Cluj-Napoca](#)

Turkey: [Kırklareli Üniversitesi](#)

For the traineeship, the Commission is recommended to

Students will be able to contact the host institutions where the practical training will take place and to obtain a Letter of Acceptance and Working Program, in which the detailed program of the traineeship will be described in detail, as well as the tasks of the trainee which should be relevant to the subject of the study. The letter will be submitted together with the other necessary supporting documents in the application file. The Department of Civil Engineering supports and encourages mobility through the Erasmus+ because it considers that:

- It contributes to the interaction and familiarization of students of the department with the culture and culture of other Countries.
- It offers outgoing students the opportunity to familiarize themselves with educational systems in other Countries and the working environment in them.
- It offers the further learning of foreign languages and technical terminology.
- Creates a framework for new academic and professional possibilities
- It contributes to the further academic constitution of students.

More information can be found in the relevant regulation posted on the website of the Department ([link](#)).

IAESTE

Head: T. Papadopoulos,
Op. Professor of Electrical
Engineering and Computer
Engineering.

I.A.E.S.T.E. (International Association for the Exchange of Students for Technical Experience) is an international organization, for the purpose of exchanging students of applied disciplines (Technical University, Economics Universities, etc.) between the countries - members of the organization, for practical exercise related to the subject of their studies, outside the limits of their country.

In our country he is represented by the I.A.E.S.T.E National Council. Greece and in cities with Universities involved by the Local Committees. The Technical School of Xanthi has been established and operates the Local I.A.E.S.T.E Committee. Xanthi. The aim of this Committee is to find each year a number of reception places for foreign students in Greek companies. These posts ensure the possibility of sending students of the Xanthi Polytechnic School to countries abroad for internships, which is considered so essential for engineering studies, that many of the departments of the Polytechnic School of Xanthi have included it in their curriculum.

Web page IAESTE Xanthi:
<https://iaeste.duth.gr>

THE DEPARTMENT OF CIVIL ENGINEER



ΔΗΜΟΚΡΙΤΕΙΟ ΠΑΝΕΠΙΣΤΗΜΙΟ ΘΡΑΚΗΣ | DEMOCRITUS UNIVERSITY OF THRACE

ADMINISTRATION OF THE DEPARTMENT

The governing bodies of the Department are the President, the General Assembly of the Department, the Directors of the Sectors and the General Assemblies of the Sectors of the Department. The powers of these bodies are defined by the legislation in force.

The General Assembly of the Department consists of the Professors of the Department, one (1) representative per category of the members of EPE, EPE, ETEP, ETEP, one (1) representative of the undergraduate and postgraduate students of the Department.

The President of the Department is elected for a two-year term by a body of electors comprising the Professors of the Department.

The directors of the Sectors are elected every year.

Chairman:

L. Iliadis, Professor

Deputy Chairman:

C. Akrotos, Asc. Professor

Head of Secretariat: P.

Tsobanaki



On the Civil Engineering Department page:
<http://www.civil.duth.gr>

STRUCTURE OF THE CIVIL ENGINEERING DEPARTMENT

Today the Department of Civil Engineering consists of the following Fields:

- Sector of Construction Science
- Sector of Transport and Communications
- Sector Hydraulic Works
- Sector of Geotechnical Engineering
- Sector of Mathematics, Programming and General Lessons

The Domains are subdivided into Laboratories as follows:

◆ Sector of Construction Science

- Laboratory of Static and Dynamics of Construction
- Laboratory of Reinforced Concrete and Earthquake Structures
- Laboratory of Metal Construction
- Laboratory of Technical Engineering
- Laboratory of Building Design
- Laboratory of Construction Materials

◆ Sector of Transport Projects and Communication

- i. Laboratory of Road and Road Safety
- ii. Laboratory of Transport Technique and Design-Organization of the Site

◆ Sector of Hydraulics works

- i. Laboratory of Hydraulic Engineering and Environment
- ii. Laboratory of Hydrology and Hydraulics Works
- iii. Laboratory of Coastal and Port Works

◆ Sector of Geotechnical Engineering

- i. Laboratory of Soil Engineering and Foundations
- ii. Laboratory of Technical Geology and Groundwater Research

Sector of Mathematics, Programming and General Lessons

- i. Laboratory of Organization and Planning
- ii. Laboratory of Mathematics and Informatics in Science of Civil Engineering
- iii. Laboratory of Geodesy

MANAGEMENT OF HYDROMETEOROLOGICAL DISASTERS

THE PROGRAM

The main objects of the Master program are: the prognosis, protection and response or mitigation of hydrometeorological disasters.

The aim of the program is: (a) The study of extreme weather and climate phenomena, such as floods, droughts, hurricanes, etc. (b) The promotion of scientific research carried out internationally in this field of Civil Engineering. (c) The establishment of scientists - researchers who will have the infrastructure and the necessary resources for the production of independent and original scientific research and for the supply of specialized work. (d) More effective response to the needs of the country in civil engineering works in relation to the response to hydrometeorological disasters, with the provision of specialized personnel for the study, analysis, design and management of these projects.

CATEGORIES OF GRADUATES ADMITTED

Graduates of all University Departments and Faculties and Technical Universities of a similar subject can be admitted to the Master Program.

DURATION OF STUDY

The duration for the award of the Master degree is set at two (2) semesters and in the summer period (intensive program).

ECTS

The total number of credit units (ECTS) required to acquire the Master Degree is 75.

The award of the Master Degree requires the successful examination in the prescribed courses of the University of Athens. and the successful evaluation of Diploma Thesis.

The teaching of each course lasts one academic semester and corresponds to six (6) ECTS. Lively teaching methods, systems and web applications of synchronized e-learning, intensive courses and any other method deemed appropriate may be used for the smooth functioning of the education process. 100% of courses may be conducted remotely, as provided by n. 4485/2017. The distance learning of lectures is provided to facilitate postgraduate students, who either do not have the financial opportunity to be in Xanthi during the whole period of study, or work. The distance learning courses are possible as the Department of Civil Engineering has three certified rooms for teleconferencing - tele-training as well as licenses for the use of appropriate software (MS Teams, Big Blue Button (synergia).

Attendance at courses is compulsory. Each graduate student must attend and successfully examine in ten (10) courses in total. Postgraduate students are required to prepare a Postgraduate Thesis, which corresponds to fifteen (15) ECTS.

TEACHING LANGUAGE

The courses are taught in Greek, but a total or part of a course in English is possible when the number of foreign-language postgraduate students per course exceeds five (5). Master thesis is normally written in Greek and in special cases in English.

STAFF

For the implementation of the Master Program 18 Faculty members are participating in the courses teaching. Six of them are active Faculty members of the Hydraulic Works Sector, 3 other active members of the Civil Engineering Department, 1 Faculty member from the Department of Environmental Engineering. In detail, the Professors are:

HYDRAULIC ENGINEERING SECTOR

1. PROFESSOR KAGALOU I.
2. PROFESSOR ANGELIDIS P.
3. PROFESSOR MARIS F.
4. ASSOCIATE PROFESSOR AKRATOS C.
5. ASSISTANT PROFESSOR SPILIOTIS M.
6. ASSISTANT PROFESSOR SAMARAS A.

CIVIL ENGINEERING

1. PROFESSOR ILIADIS L.
2. ASSOCIATE PROFESSOR I. DOKAS
3. Dr. PAPALEONIDIS A.

DEPARTMENT OF ENVIRONMENTAL ENGINEERING

1. PROFESSOR SYLAIOS G.

DEPARTMENT OF FORESTRY AND MANAGEMENT ENVIRONMENT AND NATURAL RESOURCES

1. PROFESSOR PASCHALIDOU A.
2. ASS. PROFESSOR PAPAIOANNOU G.

EXTERNAL ASSOCIATES

1. VARLAS C.
2. KARAGIORGOS C.
3. LATINOPOULOS D.
4. PAPARIZOS S.
5. TSAKMAKIS I.

DIPLOMA SUPPLEMENT

The Master Program “Management of Hydrometeorological Disasters from the academic year 2022-2023” grants to the graduate students/students of the Diploma Supplement in the Greek and English language.

The Diploma Supplement follows the model developed by the European Commission, the Council of Europe and UNESCO/CEPES. The aim of the Annex is to provide sufficient independent data to improve the international "transparency" and fair academic and professional recognition of qualifications (diplomas, degrees, certificates, etc.).

It was designed to give a description of the nature, level, background, content and status of the studies, which were successfully completed by the person named in the original of the title to which this annex is attached.

PLAGIARISM

The students and students of the Department assume the responsibility not to fall for the offense of plagiarism. If plagiarism is established, disciplinary proceedings shall be instituted as provided for in the Foundation Regulation.

The work is also subject to electronic control plagiarism by the teacher/teacher.

Any work submitted, undergraduate or postgraduate or doctoral, is accompanied by the following affidavit, which is attached to the final text before the contents page of the work:

“I confirm that I am the author of this work and that I have stated or referred to it, explicitly and specifically, all sources from which I have used data, ideas, suggestions or words, whether they are transposed precisely (in original or translated) or paraphrased. I also certify that this work was prepared by me personally especially for the specific research or the specific course/seminar/curriculum”.

In the event that IFRIC member is found has committed plagiarism, is referred by the President of the Department to the Ethics Committee of the Foundation.

The Department of Civil Engineering adopts the draft of the MO.DI.P. A guide against plagiarism, available at the following hyperlink, is IFRIC: <https://civil.duth.gr/undergraduate/>

2020-2021 ACADEMIC CALENDAR

WINTER SEMESTER

Duration Of Instruction

From 31-10-2022 to 23-12-2022 and
 From 09-01-2023 to 12-02-2023

Examination Period

From 13-02-2023 to 26-02-2023

Holidays

Wednesday 28-10-2020 (National
 Anniversary) Tuesday 17-11-2021
 (Polytechnic Anniversary)
 Wednesday 06-01-2021 (Epiphany Day)
 Saturday 30-01-2021 (Feast Of Three Holy
 Hierarchs)

Christmas and New Year's Holidays

From 23-12-2022
 to 06-01-2023

Local Holidays

Tuesday 04-10-2023 (Liberation of the city of
 Xanthi)

SPRING SEMESTER

Duration Of Instruction

From 27-02-2023 to 07-04-2023 and
 from 24-04-2023 to 11-06-2023

Examination Period

From 12-06-2023 to 25-06-2023

Holidays

From Friday 24-02-2023
 to Clean Monday 27-02-2023 Saturday
 25-03-2023 (National Anniversary)
 Monday 01-05-2023 (May Day)
 Monday 05-06-2023 (Holy Spirit Day)

Easter Holidays

From M. Monday 10-04-2023
 to Friday 21-04-2023

Repeat Examination Period for the two semesters From Friday 01-09-2023 to Tuesday 29-09-2023

Summer Vacation

From Saturday 01-07-2023 to Thursday 31-08-2023



CURRICULUM

1st Semester

| | | ECTS | HOURS |
|-------|---|------|-------|
| 1 | Introduction to water and aquatic environment management | 6 | 2+1 |
| 2 | Hydrometeorology - Hydrology and Climate Change | 6 | 2+1 |
| 3 | Modeling, Forecasting and Management of Flood Risk | 6 | 2+1 |
| 4 | Computational Intelligence and Control Systems | 6 | 2+1 |
| 5 | Hydroinformatics and Decision Support Systems (DSS) for flood risk in urban areas | 6 | 2+1 |
| Total | | 30 | 13 |

2nd Semester

| | | ECTS | HOURS |
|-------|--|------|-------|
| 1 | Civil Protection, Crisis Management - and Contingency Plans | 6 | 2+1 |
| 2 | Prediction and Early Warning Systems of Precipitation and Internet of Things (IoT) | 6 | 2+1 |
| 3 | Urban infrastructure works and floods (sewage network, floods and waste) | 6 | 2+1 |
| 4 | Drought effects in the natural environment and agriculture | 6 | 2+1 |
| 5 | Residual flows and coastal flooding: Notions of risk of vulnerability and elasticity | 6 | 2+1 |
| Total | | 30 | 13 |

SUMMER SEASON

| | |
|--------|----|
| Thesis | 15 |
|--------|----|

Total ECTS: 75



COURSES DESCRIPTION

1st Semester

1 INTRODUCTION TO WATER AND AQUATIC ENVIRONMENT MANAGEMENT

Teachers: Kagalou I.

Sylaios G.

Akratos C.

Latinopoulos D.

Professor

Professor

Associate Professor

Doctor

This course will cover the following topics:

- General aspects of aquatic ecosystems: global distribution, exploitation, food chains, addressing natural and man-made impacts.
- Water quality assessment and prediction of ecosystem properties using mathematical modeling techniques.
- Water quality monitoring and bioconditions.
- Principles of ecological management and decision-making
- Physical and biological methods for assessing the quality of inland and coastal waters.
- Waste treatment.
- Integrated control of water resources.

Once the course is completed, participants will be able to:

- To understand relationships between natural, biological and ecological mechanisms in the management of aquatic ecosystems.
- Use integrated control and mathematical modeling techniques for the control and monitoring of aquatic ecosystems.
- Understand how aquatic ecosystems respond to natural and man-made impacts.
- Gain experience in ecological management and key elements of decision-making authorities.
- Be able to formulate objectives and targets in the management of water resources

Teaching Mode: 2 Hours Suggestion/ Week

1 hour workshop/week

2 HYDROMETEOROLOGY - HYDROLOGY AND CLIMATE CHANGE

| | |
|---------------------------------|----------------|
| <u>Teachers:</u> Paschalidou A. | Professor |
| Angelidis P. | Professor |
| Papaioannou C. | Ass. Professor |
| Varlas C. | Doctor |
| Paparizos S. | Doctor |

The course focuses on:

- The basic principles governing the Earth's climate system and air-hydrosphere interactions. Presentation of the radiation and water balance in the climate system.
- Introduction to the concept of climate variability and climate change. Natural and anthropogenic mechanisms of climate change. Global climate trends and extreme phenomena. Climate change scenarios and predictions for the future.
- In estimating the maximum possible precipitation.
- In the estimation of evaporation.
- In the hydrometeorological prediction models of rainfall-supply.
- The presentation of the hydrological cycle with emphasis on the hydrological aspect.
- In the hydrological prognosis using basin models.
- In the hydrological simulation using rainfall curves.
- Report the impacts of climate change on hydrology through rainfall in river basins.
- Introduction to river basin management, water resources, land-use and agriculture runoff, groundwater, electricity generation, drought response.
- In technical projects for the management of water diets.

After the section is completed, participants must be able to:

- Be able to manage processes carried out in the atmosphere and hydrosphere.
- Understand and quantify the impacts of climate change on the hydrological cycle.
- Be familiar with data from measurements and simulations of the water phases in the hydrological cycle.
- manage meteorological and hydrological data.
- Make forecasts of future stress events and provide counseling.
- Implement the appropriate model for simulation of hydrological processes.
- To evaluate and design various water projects.
- Propose solutions and proposals for water management.
- Be able to shape the flow processes into porous media.
- To understand the processes of underground hydrology.
- Evaluate surface hydrological processes in the rainfall runoff.
- Understand and explain the multi-functionality of river basins as well as their integrated design and management.

Teaching Mode: 2 Hours Suggestion/ Week
 1 hour workshop/week

3 MODELING, FORECASTING AND MANAGEMENT OF FLOOD RISK

Teachers: Angelides P.

Professor

Spiliotis M.

Asc. Professor

Papaioannou G.

Ass. Professor

Scope - Objectives

The course examines different frameworks for the assessment and modeling of floods, from statistics to simulation, from data driven to physical modeling and places them in the wider context of flood risk management.

This course will cover the following topics:

- Analysis of vulnerability, risk and risk conditions.
- Introduction to modeling, model categories, optimization.
- Introduction to floods, their categories and mechanisms.
- Analysis of water-based flood processes (estimation of rain losses and the rain-runoff mechanism).
- Flood water transit.
- Hydraulic flood simulation with open-source software.
- 2007/60 Directive.
- Analysis and evaluation of flood protection works.
- Analysis of nature-based solution for flood management.

Once the course is completed, participants will be able to:

- Understand the main problems of flood management as well as the procedures governing the creation and spread of floods.
- Address the dynamics of flood risk in a changing climate
- Evaluate the extent of the risk of a flood and the vulnerability of the area and assess the responsiveness
- Develop comprehensive flood risk management strategies in a changing climate
- Assess and select the appropriate flood river model for the immediate implementation of structural and non-structural flood response measures.
- Simulate floods and predict the likely locations of floods
- Implement structural and non-structural measures to reduce the risk of flooding
- Develop preparedness and response plans for the effective reduction of flood risk
- Integrate flood recovery programs into flood risk management strategies
- Address urgent flood risk management issues.
- manage current real-time flood forecasting and warning practices.
- Propose and plan appropriate flood defenses on a case-by-case basis
- Propose natural solutions to limit the effects of floods (Natural Base Solutions)

Teaching Mode: 2 Hours Suggestion/ Week

1 hour workshop/week

4 COMPUTATIONAL INTELLIGENCE AND CONTROL SYSTEMS

Teachers: Iliadis L.

Papaleonidas A.

Professor

Dr.

The course focuses on the following topics:

- Development of Machine Learning templates
 - Introduction - Basic Concepts
 - Sorting - Classification
 - Regression
 - Ambiguous Set Fundamentals
 - Data Preprocessing
 - Decrease Parameters
 - Directed Machine Learning
 - Artificial Neural Networks (Front Feeding Multiplanes)
 - Applications in the development of Classification-Regression Standards in the water sector
 - Rating Indicators
 - Unbalanced data cases
 - Nondirected Machine Learning
 - Fuzzy fc-means cluster analysis
 - Introduction to the internet of things
 - Exercises and laboratories: optimal water distribution, automatic model calibration.
 - Hydroinformatics modeling based on data and physical models. Use of data-based methods in hydrological forecasts.

After the section is completed, participants must be able to:

- Understand the basic principles of optimization techniques.
- Know how real-time control systems work
- Identify control options for solving hydrological problems.
- To design a general plan for a regional real-time control system.
- To know the basic techniques of data modeling from machine learning (neural networks, model trees, vague systems etc.).
- Be able to correctly classify a modeling problem based on physics, data or hybrid
- Choose appropriate methods and tools for constructing models based on real time data

Teaching Mode: 2 Hours Suggestion/ Week

1 hour workshop/week

5 HYDROINFORMATICS AND DECISION SUPPORT SYSTEMS (DSS) FOR FLOOD RISK IN URBAN AREAS

| | |
|-------------------------------|----------------|
| <u>Teachers:</u> Angelides P. | Professor |
| Iliadis L. | Professor |
| Maris F. | Professor |
| Spiliotis M. | Asc. Professor |
| Papaioannou G. | Ass. Professor |

The course examines the role of system analysis in the design and management of water resources, and provides information on solving water resource problems as optimization problems.

This course will cover the following topics:

- Introductory concepts of hydroinformatics and optimization of water resources systems.
- Analysis and processing of satellite data
- Geographic Information Systems, Group Decision Support Systems, Database and Model Management Systems.
- Spatial Multi-Criteria Data Analysis using Geographic Information Systems
- Introduction to Decision Support Systems
- Introduction to systems analysis.
- Knowledge mining
- Analysis of the simulation-optimization-combination
- Analysis of multicriterion optimization
- Uncertainty Analysis - Monte Carlo Simulation
- Modeling and simulation of water resource systems.
- Optimizing resource models

After the section is completed, participants must be able to:

- Understand the potential of available data sources (weather satellites, web resources, data produced by climate and meteorological models) in advanced integrated models and decision support.
- Generate the primary input data of the models using Geographic Information Systems and remote sensing techniques.
- To shape and solve water resource problems as optimization problems.
- Create and optimize water resource models that will act as decision support systems.
- Separate and correctly use different types of decision support methods for water problems.
- Evaluate and optimize existing models
- Create and propose decision-making tools related to water problems.

Teaching Mode: 2 Hours Suggestion/ Week

1 hour workshop/week

6 CIVIL PROTECTION, CRISIS MANAGEMENT - AND CONTINGENCY PLANS

Teacher: Dokas J.

Associate Professor

The course includes the following sections: Longitudinal analysis of disasters. Identification of crises and disasters. Crisis development, timing and incident management plans. Information role in crisis management. The role of the Operational Coordination Centers. Crisis management systems. Citizen education and readiness. Perception and risk assessment. Development of crisis management capabilities. Public policy in crisis management. Crisis management. Administrative risk. Risk management concepts. Risk management functions. Concepts and stochastic models of risk management. Concepts and stochastic models of crisis management. Crisis management organizations/agencies/bodies. Crisis communication. Image-forming agents. Operational disaster response. Social dimension of disasters. Concepts and stochastic models of disaster management. Security culture. Emergency, rehabilitation and reconstruction planning. Design failures. Valuation of losses. Civil Protection and Self-Government. National Protection Plans.

After the section is completed, participants must be able to:

- To recognize the action and objectives of the Civil Protection
- Familiarize themselves with risk management structures.
- Evaluate risk management plans.
- Assess and analyze simple and complex natural and man-made disasters.

Teaching Mode: 2 Hours Suggestion/ Week

1 hour workshop/week

7 PREDICTION AND EARLY WARNING SYSTEMS OF PRECIPITATION AND INTERNET OF THINGS (IoT)

Teachers: Angelides P.

Professor

Iliadis L.

Professor

Maris F.

Professor

Spiliotis M.

Asc. Professor

Varlas C.

Doctor

Flood risk management and decision-making largely depends on the prediction of precipitation based on numerical modeling results and on data from weather stations, radar, satellites, etc. Research and methodologies on the application of observations data and numerical weather prediction models to hydrological forecasts have improved in recent decades. Technology development has contributed to this as operational early warning systems utilize high spatial and temporal analysis rain fields based on radar and simulations of increased computational power

This course will cover the following topics:

- Introduction to the prediction and early warning systems.
- Processing of data by meteorological stations.
- Geostatistical analysis of rainfall data.
- Introduction to numerical weather forecasting models with emphasis on rainfall.
- Synthetic production of hydrological time series.
- Responding to threats with early warning systems.
- Communication protocols of early warning systems.
- Planning early warning systems based on cost-benefit analysis.
- Introduction to the internet of things.
- Optimizing Early Warning Systems Using IoT.

After the section is completed, participants must be able to:

- To use data from weather stations.
- Analyze rainfall data from weather stations and numerical weather models.
- Use the QPF (Quantitative Precipitation Forecast) method.
- Assess and implement the forecasts of operational early warning systems in the European field (e.g. EFAS, European Flood Awareness System).
- To produce time series of hydrological parameters by the method of Synthetic Unit Hydrography.
- To be able to use the internet of things for the purpose of forecasting weather conditions and phenomena.
- Propose appropriate early warning systems.
- Evaluate and improve existing early warning systems.
- Propose integrated solutions to address water problems.

Teaching Mode: 2 Hours Suggestion/ Week

1 hour workshop/week

8 URBAN INFRASTRUCTURE WORKS AND FLOODS (sewage network, floods and waste)

Teachers: Angelides P.

Professor

Akratos C.

Asc. Professor

Samaras A.

Ass. Professor

Spiliotis M.

Asc. Professor

Karagiorgos C.

Ass. Professor

The course offers an overview of the modeling process and modeling tools that are available and currently used for urban water systems. The applications of modeling systems are made in practical problems such as improving system performance, controlling leakage in the water distribution networks, rehabilitating sewage systems, analyzing treatment operations and minimizing the impact of overflowing drainage in receiving waters. Finally, the use of a number of supportive tools, illustrated with practical cases, is discussed.

After the section is completed, participants must be able to:

- Describe the procedures necessary for the analysis and design of urban water supply systems, water distribution systems, drainage and drainage systems, as well as waste water treatment facilities.
- Evaluate the impact of urban water systems on the receiving environment.
- Analyze an integrated model of urban water systems and judge between different multifunctional measures that can be implemented.

Teaching Mode: 2 Hours Suggestion/ Week

1 hour workshop/week

9 EFFECTS OF DROUGHT ON THE NATURAL ENVIRONMENT AND AGRICULTURE

Teachers: Spiliotis M.

Tsakmakis I.

Repl. Professor

Doctor

The aim of the course is to contribute to the reduction of the vulnerability of people and society in general to the changes of hydrometeorological changes and extreme weather phenomena. It focuses on risk management and addressing uncertainty about climate change in water resources through various combined field measurements and operational mathematical simulations, including monitoring of known risks. The course also includes the recognition of adaptation measures, with a particular focus on drought, and focuses on the important need to protect and restore ecosystems that provide critical land and water resources and services. Finally, irrigation and precision farming techniques are presented as measures to deal with drought phenomena in agricultural capital.

This course will cover the following topics:

- Introduction to drought
- Effect of drought on ecosystems
- Drought Indicators
- Drought-water balance assessment models
- Drought and Water Resource Management
- Climate change and drought
- Industrial and technical drought response projects
- Vegetation management in water scarcity environments
- Water productivity and precision irrigation
- Plant Growth Monitoring and Simulation
- Restoration of vegetation in water scarcity environments.
- Selection and production of plants resistant to lack of water

After the section is completed, participants must be able to:

- Implement appropriate techniques and models to assess the aquatic potential of an area.
- Provide for periods of drought
- To propose appropriate solutions for both technical and craft activities
- Understand climate change and explore possible solutions that they can implement.
- Understand and manage water resources.
- Be aware of the impact that climate change will have on the human, natural and built environment, covering key aspects such as water resources, floods, sea level rise and coasts, health, transport, infrastructure and cities.
- Be able to evaluate, propose and implement sustainable adaptation strategies to key infrastructure and environmental arrangements.
- Know precision farming methods.
- Be able to propose management measures in both the environment and agriculture for more efficient yields by protecting water resources.

Teaching Mode: 2 Hours Suggestion/ Week

1 hour workshop/week

10 RESIDUAL FLOWS AND COASTAL FLOODS: CONCEPTS OF VULNERABILITY AND ELASTICITY RISK

Teaching Assistant: Samaras A.

Ass. Professor

The main goal of this course is to introduce the learner to new phenomena such as the flow of debris and flood. The trainees will learn how to assess the debris flows, the mathematics related to the floods and delimit the flooded areas, but also to calibrate and create new models. They will also analyze the coastal zone as a dynamic zone, which by excess human use causes a high level of risk to infrastructure and activities. In addition, it presents the main factors leading to the development of coastal areas in terms of the risk they pose. The course conveys to the student new ideas about the phenomena of flooding generated by debris or water. The students will learn to use existing satellite data geodatabases, field sensor data, results of remote models of operational forecasting of large-scale weather and marine conditions and effects of climate change models. The students will be trained in statistical and dynamic subscaling and the application of high-resolution mathematical models. Extreme value analysis is taught for the probabilization of floods and extreme coastal flood waves. Finally, learners gain knowledge to create flood (residue or water) hazard maps from simple and complex models.



LEARNING OUTCOMES

The learning outcomes of the Hydrometeorological Disaster Management Master Program are:

- The design, construction, maintenance and repair of Hydraulic Works, related to the management of water resources, hydrology of surface and underground waters, land reclamation, hydrodynamic, flood protection projects, mild forms of energy, natural disaster management.

More specifically, upon completion of their studies, graduate students will be able to:

- Conduct independent and original scientific research on the issues of Water Resources and Natural Disasters.
- Understand the harmonious relationship between water resources, centers of consumption and the environment with a view to sustainable development.
- Understand the management of groundwater, the issues of utilization of geothermal energy and in general mild forms (hydrodynamics, wind, marine).
- Apply the knowledge gained in the design, dimensioning and calculation of hydraulic and other projects, with the aim of meeting water demand as far as possible, protecting water resources and the environment, and protecting against extreme hydrometeorological phenomena and natural disasters.
- Analyze the levels of complexity in managing water resources.
- Classify the alternatives and set the appropriate criteria for their evaluation.
- Compose the structure of solutions based on feasibility (technology, means, local technical conditions), but also social, economic and environmental considerations.
- Evaluate alternative solutions to projects, development programs and management policies, using multi-criteria methods.

USEFUL HYPERLINKS

Master program 'HYDROMETEOROLOGICAL DISASTER MANAGEMENT'

<https://civil.duth.gr/postgraduate/>

Regulation of the Academic Adviser in the Department of Civil Engineering

<https://civil.duth.gr/undergraduate/>

Traineeship Regulation

<https://civil.duth.gr/undergraduate/>

Mobility Regulation Erasmus <https://civil.duth.gr/undergraduate/>

Master's Program Regulation "Hydraulic Engineering and Environment"

<https://civil.duth.gr/postgraduate/hydraulic-engineering-and-environment>

Regulation of the Postgraduate Studies Program "Applied Mathematics"

<http://mapmath.civil.duth.gr/>

Regulations (old and new) of Doctoral Thesis Preparation

<https://civil.duth.gr/>

Post-Doctoral Program Regulation

<https://civil.duth.gr/>

Guide Against Plagiarism

<https://civil.duth.gr/undergraduate/>