



**UNIVERSITY OF THE AEGEAN**  
**SCHOOL OF ENGINEERING**

DEPARTMENT OF FINANCIAL AND MANAGEMENT  
ENGINEERING

STUDENT GUIDE

ACADEMIC YEAR

2020-2021

Chios, October 2020

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Head of Postgraduate Program, Professor Georgios Dounias: ☎ 2271035421

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Secretary to the Head of the Department: ☎ +30-22710-35403, ✉ [TMOD\\_Gram\\_Proedr@chios.aegean.gr](mailto:TMOD_Gram_Proedr@chios.aegean.gr)Secretary of the Undergraduate Program: ☎ +30-22710-35411, 35430, 35414 ✉ [TMOD\\_gram\\_foit@aegean.gr](mailto:TMOD_gram_foit@aegean.gr)Secretary of the Postgraduate Programs: ☎ +30-22710-35422 (O.D.I.M.), ✉ [odim\\_gram@chios.aegean.gr](mailto:odim_gram@chios.aegean.gr)

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[☎+30-22710-35432 \(ME.D.M.O.D.E, ✉medmode\\_gram@chios.aegean.gr\)](mailto:medmode_gram@chios.aegean.gr)Student Internships' Office: ☎ +30-22710-35419, ✉ [TMOD\\_Prakt\\_Askisi@chios.aegean.gr](mailto:TMOD_Prakt_Askisi@chios.aegean.gr)Computing Centre (Help Desk): ☎ +30-22710-35166, ✉ [help@chios.aegean.gr](mailto:help@chios.aegean.gr)Student Welfare Office: ☎ +30-22710-35025, ✉ [merimna@chios.aegean.gr](mailto:merimna@chios.aegean.gr)

Student Counseling and Psychological

Support Centre: ☎+30-22710-40704 & 22710-20838, ✉ [kphiou@otenet.gr](mailto:kphiou@otenet.gr)Students' Association: ☎ +30-22710-35491, ✉ [fsyllogos@fme.aegean.gr](mailto:fsyllogos@fme.aegean.gr)Local Library ☎ +30-22710-35030, ✉ [lib-chios@aegean.gr](mailto:lib-chios@aegean.gr)

## **Foundation and Development**

The University of the Aegean was founded on 20<sup>th</sup> March 1984, under the Presidential Decree 83/1984. The University's headquarters are located in Mytilene, while its various academic and research activities are distributed in five islands of the Aegean complex, thus establishing a Network- University.

The University academic goals include the development and promotion of innovative scientific disciplines and curricula in selected fields of Higher Education in accordance with current requirements of the Greek and global community.

Besides its educational activities, the University of the Aegean focuses on the promotion of basic and applied research. Its unique geographic location contributes significantly to the social and economic development of the Aegean region.

Today, the University consists of 6 Schools, 18 Departments and offers 43 Graduate Study Programs.

For more information visit the University of the Aegean website: <http://www1.aegean.gr/aegean2/index.html>

## **Academic Governance**

The managing authorities of the University are the Rectorate, that is the Rector, the Vice-Rectors, the Senate and the Rector's Council

### **The Rectorate**

#### **The Rector**

The Rector presides over the University, represents and directs it, is responsible for the proper functioning of its operations, convenes the Senate and ensures the implementation of its decisions. In his / her work he/she is assisted by four Vice-Rectors.

The **Rector** of the University of the Aegean is Professor Chrysi Vitsilaki

The **Vice Rector of Research Research and Lifelong Learning** is Assoc. Professor Maria Mavri

The **Vice Rector of Academic and Student Affairs** is Professor Elena Theodoropoulou

The **Vice Rector of Administrative Affairs** is Professor Dimitrios Papageorgiou

The **Vice-Rector for Finance, Planning and Development** is Professor Charalambos Skianis

#### **The Senate**

According to the provisions of paragraph 1 of Article 13 of Law 4485/2017 (Government Gazette 114 / 04.08.2017, A ') the Senate is composed of:

- a) The Rector.
- b) The Vice-Rectors.
- c) The Deans of the Schools.
- d) The Heads of the Departments.
- e) Student representatives whose number should account for 10% of all members of the Senate consisting of cases a to d above. If, by the above percentage, a decimal number is obtained, it is rounded to the previous integer when it is less than half (0,5) and to the next integer when it is half (0,5) or more than half. Student

**Department of Financial and Management Engineering**

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representatives are at least one (1) from the undergraduate students and one (1) from the postgraduate students and doctoral candidates, where available.

The above student representatives are elected, along with their alternates, for an annual term by the eligible students, through direct, secret and universal voting of all students of the University.

f) Three (3) representatives, one (1) per category from the members of Special Training Staff, Special Teaching Staff and Special Technical and Laboratory Staff.

g) One (1) representative of the administrative staff. The representatives of cases (f) and (g) are elected, together with their alternates, by direct, secret and universal voting of the members of the University's relevant categories of staff, by a single ballot per category, for a two-year term and the possibility of re-election for one more term.

The Senate is constituted and operates legally even if student representatives, and representatives of the Special Training Staff (E.E.P), Special Teaching Staff (E.DI.P) and Special Technical and Laboratory Staff (E.T.E.P.), and the administrative staff have not been elected.

At the meetings of the Senate, representatives of the Association of Teaching and Research Staff, E.E.P, E.DI.P. and E.T.E.P. as well as other persons or bodies deemed necessary to inform the Senate can be invited to be present without voting rights.

**THE SCHOOL OF ENGINEERING**

The School of Engineering was established by article 75 of Law 4485/2017 (Government Gazette 114 / 04.08.2017) and consists of the Engineering Departments of the University of the Aegean, which have been operating for almost twenty years:

- The Department of Information and Communication Systems Engineering
- The Department of Financial and Management Engineering
- The Department of Product and Systems Design Engineering.

The primary objective of the School is to equip engineers with strong interdisciplinary knowledge and skills, as well as to conduct excellent research in a range of innovative subjects such as Management Engineering and Financial Engineering, Product Systems Design, and Information Technology and Communications Systems.

The School of Engineering aims at:

- Cultivating an engineering profile through problem solving techniques using scientific and technological methods that produce knowledge and create the foundation for innovation.
- Developing its teaching approach with emphasis on utilizing the research and empirical findings for the education of students and the training of professionals in the fields of education, industry and society.
- Extroversion, allowing for the exploitation of the innovative solutions developed by the School's Departments for the benefit of society at large.

The successful completion of the first cycle of study leads to the award of an integrated master's degree in accordance with article 46 of Law 4485/2017. The second cycle includes Graduate level programs targeted to a wide range of graduates of engineering and related disciplines. The above extend to Doctoral Studies which are inextricably linked to original research activities and production of new knowledge and to the production of engineers who excel in the academic, business and industrial fields.

The School organizes a large number of extra-curriculum activities including Scientific Conferences, Summer Schools, Educational Excursions, and actively participates in the Erasmus + Mobility Program which targets students, teaching and administrative staff.

**The Department of Financial and Management Engineering (FME)<sup>1</sup>**

The Department of Financial and Management Engineering was established in 2000 in response to the demand for a new generation of engineers qualified to meet the challenges of the Information and Service Economy and able to conduct research and produce know-how in the following areas:

- Financial Engineering
- Engineering Management

The above sectors constitute fields where demand for a new type of Engineer has emerged. The globalization of markets and the growth of a service economy call for highly techno-economic executives capable of responding not only to the technical but also to the increased financial, managerial, and administrative requirements of the engineer profession. The Department of Financial and Management Engineering aspires to cover the market demand for versatile executives whose technical skills would be embedded in a solid financial and managerial background.

The duration of the studies is five years.

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<sup>1</sup> The Department of Financial and Management Engineering was established in the context of the 2nd European Support Framework Program, namely, the *Operational Program of Education and Primary Vocational Training* of the Ministry of Education. The Program was supported by the European Union and was financed by the European Regional Development Fund (ERDF) and the European Social Fund (ESF).

**The Department of Information and Communication Systems Engineering**

The Department of Information and Communication Systems Engineering was established in 1997 with the aim to produce highly qualified engineers with a creative and critical spirit capable of utilizing modern Information and Communication Technologies for the design, development and management of Information and Communication Systems. The fusion of information and communication technologies within integrated systems has given the Department a special character that it maintains and reinforces.

The Department's educational and research activities include a wide range of disciplines such as security, e-government, intelligent systems, networks and communications, innovation and entrepreneurship, information management, computer systems hardware and software, and law in information and communication technologies.

**The Department of Product and Systems Design Engineering**

The Department of Product and Systems Design and Engineering was established in 2000 and was the first of its kind in product design engineering in Greece. The Department aims at producing engineers who, having the holistic knowledge of Product Design, can intervene creatively in all phases of a product's system, or service life cycle, starting from its conception, to the production of prototypes, to the design of production facilities.

Graduates of the Department are active in a number of important area of the national economy, holding positions in design studios, product development companies, offering consulting services in product design and development, entrepreneurship and innovation, and participating in research teams aiming to obtain a doctoral degree in the field of design.

**Postgraduate Study Programmes**

Upgrading the education system is inextricably linked to the development of postgraduate programs. Also, the scientific and technological developments taking place are first and foremost integrated at the postgraduate level. The School of Engineering maintains eight (8) postgraduate study programs:

- Finance and Management for Engineers (MSc) (<http://odim.aegean.gr/>)
- Postgraduate Diploma in Economics and Management of Engineering through Research (MEDMODE) (<http://medmode.aegean.gr/>)
- Security of Information and Communication Systems (<http://msc.icsd.aegean.gr/security/>)
- Internet of Things: Intelligent Environments in New Generation Networks (<http://msc.icsd.aegean.gr/iot/>)
- E-Government (<http://msc.icsd.aegean.gr/egov/>)
- Information and Communication Systems (<http://msc.icsd.aegean.gr/ics-conversion/>)
- Digital Innovation and Innovative Entrepreneurship: A Bi-Institutional Program in Collaboration with the National Technical University of Athens (<http://msc.icsd.aegean.gr/innovation/>)
- Integrated Design of Innovative Products (OSKP) (<http://ipdi.aegean.gr/>)

**Doctoral Programs (Ph.D.)**

There are Doctoral Programs in all departments of the School of Engineering which provide specialization in the scientific fields of the Departments, as well as in related fields. The acquisition of a doctoral degree is governed by the current laws in force.

**Student Support Services**

The School of Engineering offers the following services to students:



**Department of Financial and Management Engineering**

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- Student Registry Services, which registration services, issue of transcripts and certificates, courses' and exams' timetable, preparation of graduation ceremonies, etc. Each Department maintains its own Student Registry.
- Student Welfare Office which deals with a wide range of practical issues such as accommodation, catering services, medical care, scholarships, grants and student loans as well as the distribution of educational material.
- Counseling and Psychological Support Centre
- Student Internship Office.

**Student Welfare Office**

Students of the School of Engineering are entitled to the following services:

- Right to free meals granted to students based on the economic status of themselves and/or their families. Non-eligible students are provided with meals at a low cost. The University operates a student restaurant.
- Right to housing. The University of the Aegean offers free accommodation to a certain number of students on each island. This number depends on the infrastructure available and the amount of funding available. The Regional University Unit of Chios offers 178 single student dormitories, 160 of which are available to undergraduate students and 18 to postgraduate students and PhD students. Applications for accommodation in student residences are submitted electronically each year at the beginning of the income tax submission period and for senior students expires on a date set by the Central Department of Education and Student Welfare whereas for new students it expires at the end of the official registration period set by the Ministry of Education. The results of the housing beneficiaries are announced in the first half of October. For more information please refer to the relevant website: <https://studies.aegean.gr/>.
- Free textbooks in accordance with Decree 2433/05.08.2016.
- Reduced fare in public transport through the issue of a student card. The card offers 25-50% discount in coastal shipping, and 50% discount in urban and regional transport to and from the student's place of residence.

The above are supervised by the Regional Student Welfare Office, which is appointed by the Rector for a three-year period. It consists of the Head of one of the Departments hosted at the regional unit, his / her alternate, two members of administrative staff and one student representative from the regional unit.

**The Counseling and Psychological Support Centre**

The Counselling and Psychological Support Centre in the island of Chios operates in partnership with the Centre for Addiction Prevention and Promotion of Mental Health of Chios. Its aim is to support students to effectively deal with psychological problems that may arise during their student life. Such a cooperation offers students the possibility of individual counseling to deal with pressing matters such as prolonged stress, problems in time management, interpersonal relations, communication problems with peers and various addictions. The Centre also provides opportunity for group meetings. All the services of the Prevention Centre are offered free to members of the academic community.

The Chios Prevention Center is located at 42 Rodokanakis Str., 1<sup>st</sup> floor, in the city of Chios.

Tel. 22710-40704, 22710-20838

Office Hours:

Monday - Thursday: 08:15-14:15

Friday: 08:15-14:00.

Psychologists in student services: **Mr Stratos Tsoukaris** and **Mrs Marina Kyriakou**

### **The Student Internship Programs in Greece and abroad**

The Internship Program (<http://pa.aegean.gr/>) organizes, under academic supervision, the placement of students in paid workplaces during the course of their studies. This practice was first introduced by the Business School of the University 30 years ago and aims to:

- Provide students the opportunity to get in contact with the business world and to combine theory with hands-on experience.
- Provide students with business insights from a broad spectrum of sectors.
- Allow students to get in contact with state-of-the-art forms of business organization in various industry and services contexts.
- Facilitate graduates' entry into the labor market and make long-term career planning easier for them

Student Internship is part of the curriculum of the Department of Financial and Management Engineering and lasts approximately two months. Student funding is provided either by the associated business partners (Extended Internship) or through other co-funded programs. Students who are interested in participating in the Internship Program and who meet the eligibility criteria must apply at a specific period of time set by the Department's Secretariat. The allocation of students to internship positions is made by the Program Supervisor, based on criteria such as year of study, academic performance, student preferences, number of previous placements, etc. Each participant in the Program is supervised by a faculty member assigned by the Department's Assembly. At the end of the Internship period the student is evaluated by the faculty member/academic supervisor and his/her job supervisor, while at the same time the student himself submits a written report on his/her internship experience.

In addition, the University of the Aegean, through its participation in the Erasmus+ European program for education, training, youth and sport for the period 2014-2020, gives students the opportunity to get work experience abroad through the Erasmus+ Placement Program.

The Erasmus + Program supports traineeships (work placements, internships, etc) abroad for students currently enrolled in higher education institutions in Programme countries at Bachelor and Master level as well as for doctoral candidates. These opportunities are also open to recent graduates. Students receive an Erasmus+ grant as a contribution to their travel and subsistence costs and extra funding for traineeships. Funding may vary according to differences in living costs among countries, the number of students applying for a grant, the distance between countries and the availability of other grants.

Host organizations may be businesses, research centers, training organizations, NGOs, and universities (with the exception of EU institutions, bodies and agencies). Each student signs a grant agreement specifying the duration of his/her mobility, the amount of the grant and other rights and obligations. This agreement is signed by the Higher Education Institution of Origin, the trainee, and the Hosting Organization. Traineeship abroad may last from a minimum of 3 months to a maximum of 12 months.

More information on the eligibility criteria and the procedures to follow is available on the Program's website: <https://erasmus.aegean.gr/en/students-mobility-european>

## THE DEPARTMENT OF FINANCIAL AND MANAGEMENT ENGINEERING

### **Description**

Graduates of the Department of Financial and Management Engineering (DFME) are educated in an interdisciplinary way to respond to the growing demand for a new generation of engineers who combine technical skills with a solid financial and managerial background. The DFME cultivates an entrepreneurial spirit to its graduates, who are highly qualified to meet the needs of a turbulent technological and economic environment. At the same time, the Department conducts basic and applied research that promotes the production of new knowledge and innovation in the fields of:

- Financial Engineering
- Management Engineering

### **Academic Staff**

Academic work (teaching and research) is carried out by Academic Teaching and Research Faculty, adjunct teaching staff, members of Laboratory Teaching Staff, Special Educational Personnel, and Special Technical and Laboratory Personnel. In the course of their duties, university teachers and researchers are protected by the principle of academic freedom, and must adhere to and protect the written or customary (unwritten) rules of ethics in academic behavior.

#### Faculty Members of the Department of Financial and Management Engineering

| No | Academic Level      | Name                      | Area of Expertise   |
|----|---------------------|---------------------------|---|
| 1  | Professor           | Ioannis Gkialas           | Physics   |
| 2  | Professor           | Spyridon Golfinopoulos    | Environmental Quality Technology and Management             |
| 3  | Professor           | George Dounias            | Management and Decision Making for Engineers                |
| 4  | Professor           | Ioannis Minis             | Engineering Science   |
| 5  | Professor           | Konstantinos Papageorgiou | Experimental Physics  |
| 6  | Professor           | Agapios Platis            | Applied Operational Research                                |
| 7  | Associate Professor | Nicholas Ampazis          | Machine Learning and Neural Networks Training Methodologies |
| 8  | Associate Professor | Anastasia Constantelou    | Innovation Management                                       |
| 9  | Associate Professor | Michail Glykas            | Operations Management                                       |
| 10 | Associate Professor | Petros Kavassalis         | Business Informatics  |
| 11 | Associate Professor | George Liagouras          | Institutional Economics                                     |

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|----|----------------------------------|--------------------------|---|
| 12 | Assistant Professor<br>(tenured) | Dimosthenis Drivaliaris  | Operator Theory - Linear Algebra                                      |
| 13 | Assistant Professor              | Nikolaos Alexopoulos     | Mechanics of Materials  |
| 14 | Assistant Professor              | Evangelos Vasileiou (El) | Computational Optimization and Non-Parametric Data Adaptation Methods |
| 15 | Assistant Professor              | Vasilios Zeimpekis       | Supply Chain Management   |
| 16 | Assistant Professor (tenured)    | Vasilios Koutras         | Stochastic Modeling   |
| 17 | Assistant Professor              | Ioannis Baltas           | Financial Engineering   |
| 18 | Assistant Professor              | Evangelos Vasileiou (St) | Finance   |

**Adjunct Faculty Members at Department of Financial and Management Engineering**

| <b>Name</b>           | <b>Area of Expertise</b>   | <b>Education</b>   |
|-----------------------|--|--|
| Ioannis Karageorgos   | Mathematic Analysis /<br>Differential Equations  | ◆PhD, School of Applied Mathematics and Physical Sciences, National Technical University of Athens.                  |
| Konstantinos Mamas    | Operations Research,<br>Algorithm Development,<br>Combined Optimization,<br>Computer Programming in<br>MatLab Environment,<br>Computer Programming in<br>Languages: vb.net, c #,<br>Javascript,<br>Telecommunications<br>Engineering, Electronic<br>Engineering, Process<br>Analysis | ◆PhD, Department of Financial and Management Engineering, University of the Aegean                                   |
| Efstathios Stathoukos | Accounting and Finance   | ◆MBA "Master of Business Administration" Graduate School of Management, State University of New York at Buffalo USA. |
| Nikolaos Passalis     | Deep learning – Data Analysis  | ◆PhD, Department of Computer Science, Aristotle University of Thessaloniki   |
| Panagiotis Vasilakis  | Management Systems for<br>Engineers  | ◆ PhD, Informatics Institute, Foundation for Research and Technology, Technical University of Crete.                 |

**Department of Financial and Management Engineering**

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| Alexandros Tzanetos | Intelligent Computational Optimization Methods | ◆PhD, Department of Financial and Management Engineering, University of the Aegean |
|---------------------|--|--|

| <b>Special Laboratory and Teaching Personnel of the School of Business offering services to the Department of Financial and Management Engineering</b> |                          |  |   |
|--|--------------------------|--|---|
| <b>Name</b>  | <b>Area of Expertise</b> | <b>Year of entry at the School of Business</b> | <b>Education</b>  |
| Penelopi Michalakopoulou   | Business Communication   | 2003   | <ul style="list-style-type: none"> <li>• Department of Language and Literature, Linguistic Sector</li> <li>• Master in Applied Linguistics, University of Athens, 1998</li> </ul> |

| <b>Special Laboratory Technical Staff, Department of Financial and Management Engineering</b> |                               |  |
|---|-------------------------------|--|
| <b>Name</b>   | <b>Year of Entry at DFME.</b> | <b>Education</b>   |
| Lemonia Amygdalou   | 2003                          | <ul style="list-style-type: none"> <li>• Technological Education Institute of Piraeus</li> <li>• Postgraduate Diploma, Economics and Management for Engineers, University of the Aegean</li> </ul> |
| George Melekos  | 2016                          | <ul style="list-style-type: none"> <li>• Department of Technical Infrastructure Engineering, Technological Educational Institute of Patras</li> </ul>  |

**Honorary Doctoral Fellow**

On December 4, 2009, in a formal academic ceremony, Prof. Stamatios Krimizis was awarded the title of Honorary Doctoral Fellow at the Department of Financial and Management Engineering, Prof. Krimizis is an internationally renowned Professor and member of the Academy of Athens who was awarded this title for his significant contribution to the exploration of all solar planets as well as for his contribution to areas of Engineering that include the design, construction, technical inspection and launch of artificial satellites or individual spacecraft used for measurements in interplanetary missions on in orbit missions around the Earth.

## **Facilities**

The Department maintains two main buildings in the centre of the city of Chios, located at 41 and 45 Kountouriotou Str. Students of the Department also use the Teaching Rooms, the Library, and the Computer Centre of the School of Business

- Library of the School of Business, 8 Michalon Str., 82 100, Chios, Tel.: 22710-35030, 35031, e-mail: [lib-chios@aegean.gr](mailto:lib-chios@aegean.gr).
- Computer Centre, School of Business, 8 Michalon Str., 82 100, Chios Tel.: 22710-35166 , e-mail: [helpdesk@aegean.gr](mailto:helpdesk@aegean.gr) .

In particular, the DFME has access to the following buildings at the town of Chios:

### **The buildings**

- The Michalio building at 8 Michalon Street (building of the former Michalion Orphanage) with a total area of 3,069 sq.m. houses the main educational facilities of all University departments in Chios, as well as the administrative functions of the Department of Business Administration and the Regional Directorate of the Chios Unit. The building facilities consist of 3 lecture rooms, one meeting room, 2 conference rooms, a library and reading room, 3 computing centers, a foreign language audiovisual center, offices of the academic staff, and a modern amphitheater.
- The "Adamantios Korais A" building on Korai Street, next to the Korai Library (936 sq.m.), was granted by the Municipal Council of Chios and houses the Department of Shipping, Trade and Transport, as well as research activities. It has 2 classrooms, offices for tutors and administrative staff and a reading room.
- The "Kountouriotou" building, at 22 Kountouriotou and Stamatiou Proiou Street, which houses the activities of the Postgraduate Program "NAME". It has two lecture rooms, tutors' offices, and offices for PhD candidates.
- The Karradeio building at 13 Mantika Street (1,427 sq.m.), granted by the Women's Association "Friends of the Chios Village" hosts 2 lecture rooms, administrative services, and a 22-bed hostel.
- The two buildings of TMOD at 41 and 45 Navarchou Kountouriotou Street (total area of around 1300 sq.m.) which hosts offices of faculty members, administration services, PhD candidates, and research laboratories.
- The Student Dormitories (Area 4,200 sq.m.) are built on a property granted by the Holy Order of Agios Panteleimonos. They are located 5 km from the city center, at the seafront, and include 6 newly built buildings, with 179 single rooms, each with a separate bathroom, and common reception and kitchen areas per building.

### **Library and Information Center**

The Library of the University Unit of Chios is a Branch of the Central Library of the University. It maintains an automated management system that operates in a network environment and connects online to the Central Aegean Library. Orders of material and receipts are made by the Central Library, whereas bibliographic processing and the management of local collection is made at the local Branch. The Academic Community and the general public have the right to use its services, in accordance with the provisions of its Regulation. More information about the Library is available at <http://www.lib.aegean.gr/>

### **The Computing Center**

The University Unit of Chios has modern Computing Centers (PCs) which cover the teaching needs of IT-related courses at undergraduate and postgraduate level. There are also Teleconferencing facilities which interconnect the Chios Unit with other units of the University and with other Institutions in Greece and abroad.

**Computer Cluster**

The Department maintains a computer cluster, which is used for experiments that require enhanced computational performance. The cluster's performance is of 110Gflops, 28 Gb RAM and 1.5 TB hard. The Cluster's computational power is deployed to process complex data for PhDs and Diploma Theses. It is also used in the CERN and HELICON experiments. Students who wish to obtain more information can contact the Department's IT Office (tel +30-2271-35440)

For any other information concerning the Computing Labs students can contact the Regional Computing Centre of the School of Business, tel +30-22710-35166 (Help Desk Chios).

**Research Laboratories**

- Laboratory of Decision and Management Engineering (GG 1947/30.12.2005) (Director: Professor George Dounias).
- System Design, Operations and Production Systems Laboratory (GG 1814/01.09.2009) (Director: Professor Ioannis Minis)
- Reliability Engineering Laboratory (GG 2032/13.06.2017) (Director: Professor Agapios Platis)

In addition, the Department host the following laboratories:

- "Applied Physics and Computational Sciences Lab" (Head: Professor Ioannis Gkialas)
- "Environmental Quality and Technology". (Head: Professor Spyridon Golfopoulos)
- "Information Systems Management". (Head: Petros Kavassalis, Assoc. Professor).
- "Intelligent Data Exploration and Analysis Laboratory"(IDEAL) (Head: Nikolaos Ampazis, Assoc. Professor)
- "Applied Economics and Technology" (Econ-Tech) (Heads: George Liagouras, Assoc. Professor and Anastasia Constantelou, Assoc. Professor)
- "Materials Engineering" (Head: Nikolaos Alexopoulos, Assistant Professor)

## **Scope of Studies**

The Financial and Management Engineer responds to the pressing demands created by developments in technology and the economy. His/her main activities involve project and operations management, the management of complex techno-economic systems, the management of business processes through information systems and the use of financial engineering tools for modeling and resolving problems. The Financial and Management Engineer, either as a freelancer or as a business executive, has the analytical and technical skills to use scientific decision-making in assessing current situation dynamics (static view) and in predicting future developments (dynamic view), taking into account the economic dimension of the problems under consideration.

## **Curriculum Objectives**

The Department's Curriculum was designed with a view to integrate in a balanced way core scientific subjects necessary for the formation of the knowledge profile of a financial and management engineer and was inspired by related curricula of similar Departments around the world. Thus, an effort was made to cover evenly knowledge and skills in science-engineering, mathematics, physics and information technology, all of which resulted in a robust program of core courses providing students with strong engineering foundations. Also, the Department maintains a strong interdisciplinary profile which equips FME graduates with a competitive advantage over "traditional" engineering specializations.

## **Learning Outcomes**

Upon completion of the Undergraduate Program in the Department of Financial and Management Engineering, graduates are able to:

- Apply scientific knowledge, tools and techniques from the disciplines of engineering, mathematics, physics, and computer science to design processes and methodologies for decision-making and problem-solving in the fields of management science and finance.
- Understand the basic principles of economics and management science and recognize their interaction in the analysis, synthesis and modeling of complex problems in financial engineering, the management of techno-economic systems, and business process management.
- Conduct applied research in areas such as: investment analysis and evaluation, feasibility analysis, industry analysis, market research, strategic analysis, business planning, business process analysis, etc.
- Function effectively as members of a team.
- Communicate effectively in written and oral form with their colleagues in technical and non-technical environments.
- Identify and use appropriate technical literature to enrich and update their knowledge in a systematic way.

Depending on the track selected, the Financial and Management Engineer is able to:

- Analyze financial data and markets, identify relevant investment opportunities and design and implement complex financial decision support systems ("Financial Engineering" track).
- Manage complex technical and administrative systems, maintain their efficient operation in financial and organizational terms, and manage the time and cost constraints of projects in an efficient and effective manner (Direction "Management Engineering" track).



**Curriculum Description**

The Department's 5-year undergraduate curriculum consists of 53 courses, of which:

- Forty one (41) are core courses (compulsory) taught during the first four years of study. They are common to all students and belong to the fields of Physical and Mathematical Sciences, Engineering, Economics and Management.;
- Seven (7) are compulsory track courses mainly taught during the fourth and fifth year of studies, relevant to the specialization track chosen by the student;
- Three (3) are elective track courses targeting further specialization within a specific track.
- Two (2) are general electives selected from a group of elective courses. These courses are of general interest and allow the enrichment of the study program with topics important for shaping the skills of a Financial and Management Engineer.
- A Diploma Thesis is undertaken during the final year of studies (Semesters 9<sup>th</sup> & 10<sup>th</sup>).

The Department's curriculum also includes an internship program, which allows students to earn credits while gaining "hands on" practical experience in a business or research environment.

**Tracks, Specialization, and Future Career Opportunities**

The Department of Financial Management Engineering, offers two specialization tracks:

- Financial engineering
- Engineering Management

**Tracks*****Track 1: Financial Engineering***

Students who choose Financial Engineering will specialize in fields related to:

- General operations and market behavior of financial products
- Key techniques of Portfolio Management and optimum return of financial investments
- Risk management and high-risk investments
- Synthesis, behavior, and return of typical and new financial products
- Determination of attractive buying and selling prices of negotiable financial products
- Timeline analysis, financial forecast, modeling, analysis and design of stochastic processes, monitoring complex and dynamic economic and financial systems
- Currency equivalents, special banking services, principles of actuarial and insurance products

***Track 2: Engineering Management***

Students who choose Engineering Management will specialize in fields related to:

- Programming and control of production process, supplies control, resource programming, computerized design and manufacturing of products, the location of production plants, and in-house regional planning.
- Technical and financial management of projects.
- Use of the supply chain and logistics.
- Decision-making in technical or management systems, private and public enterprises, and industrial organizations.
- Development and application of quality control systems in production and service industries.
- Strategic management and planning, quality systems, accreditation systems, financial assessment, elaboration of business and marketing plans etc.
- Change and innovation management, business process engineering and restructuring
- Cost-benefit and techno-economic analysis,
- Design and development of e-business applications and business intelligence systems

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The track descriptions are meant to be indicative and not inclusive or restricted to the aforementioned areas. The curriculum allows students to select (as elective) courses from either track enabling the FME graduates to shape their individual professional profile. All FME graduates can seek employment in the following areas:

- Cost analysis, budget control
- Studies of environmental ramifications of industrial and financial systems
- Information technology services including programming, networks and data bases, installation of integrated information systems and new technological applications
- Feasibility analysis of information technology projects
- Scientific analysis, classification and processing of data and information
- General financial, social, economic, organizational and business studies of the industry as described in the Presidential Decree 541/78 concerning the Engineers' Professional Register.

**Legal framework and decisions on the professional rights of graduates**

With a recent decision (23/02/2019), the Delegation of the Technical Chamber of Greece decided to include the graduates of the Department of Financial and Management Engineering of the Engineering School of the University of the Aegean in the Technical Chamber of Greece (known as T.E.E). This decision is the highest recognition by the community of Greek Engineers of the contribution of the Department and its graduates to the modern engineering profession and seals in the most appropriate way the long-term and systematic effort of the members of the broader community of the University of the Aegean for inclusion of DFME graduates in T.E.E.

The allocation of professional rights to DFME graduates, will be made by the issuance of a Presidential Decree (PD) following a corresponding legislative authorization, in accordance with PD. 99/2018 (Government Gazette 187 / A / 5-11-2018).

In addition,

- According to Government Gazette 193 / C / 13.12.2017, DFME graduates have the opportunity to join the educational staff of the secondary education as Economists.
- According to Article 46 of Law 4485/2017 (Government Gazette 114 / 04.08.2017) the diplomas awarded by the Departments of the Engineering School of the University of the Aegean are recognized as integrated masters.
- According to a decision of the Central Administration of the Economic Chamber of Greece, during its meeting I / 62 / 11-12-2009, the graduates of the Department of Financial and Management Engineering, who have attended the Financial Engineering track, have the opportunity to register at the Economic Chamber of Greece .

## Indicative Curriculum

| FALL SEMESTER   |      | SPRING SEMESTER                                     |      |
|---|------|---|------|
| 1st Semester  | ECTS | 2nd Semester  | ECTS |
| 1. Calculus I   | 6    | 1. Linear Algebra and Analytic Geometry             | 6    |
| 2. Physics I<br>Physics and Metrics Labs                    | 6    | 2. Physics II<br>Physics and Metrics Labs           | 6    |
| 3. Introduction to Systems' Design -<br>Tutorials           | 6    | 3. Introduction to Informatics (Lab course)         | 4,5  |
| 4. Introduction to Economics                                | 6    | 4. Statics<br>Labs                                  | 4,5  |
| 5. Chemistry  | 6    | 5. Macroeconomics                                   | 4,5  |
|   |      | 6. Probabilities<br>Tutorials                       | 4,5  |
| 3 <sup>rd</sup> Semester                                    | ECTS | 4 <sup>th</sup> Semester                            | ECTS |
| 1. Calculus II  | 6    | 1. Ordinary Differential Equations                  | 6    |
| 2. Computer Programming<br>Lab courses                      | 6    | 2. Databases<br>Lab courses                         | 6    |
| 3. Applied Microeconomics                                   | 4,5  | 3 Statistics<br>Tutorials                           | 4,5  |
| 4. Introduction to Management                               | 4,5  | 4. Programming with Matlab – A Laboratory<br>Course | 4,5  |
| 5. Thermodynamics   | 4,5  | <b>Compulsory Selection (1 out of 2)</b>            |      |
| 6. Strength of Materials<br>Lab courses                     | 4,5  | 5.1 Environmental Engineering                       | 4,5  |
|   |      | 5.2 Chemical Technology                             | 4,5  |
|   |      | <b>Compulsory Selection (1 out of 2)</b>            |      |
|   |      | 6.1 Transport Phenomena (Fluids- Heat)              | 4,5  |
|   |      | 6.2 Dynamics and Kinematics                         | 4,5  |
| 5 <sup>th</sup> Semester                                    | ECTS | 6 <sup>th</sup> Semester                            | ECTS |
| 1. Probability Models                                       | 5    | 1. Operations Research I<br>Tutorials               | 5    |
| 2. Automatic Control Systems                                | 5    | 2. Financial Analysis                               | 5    |
| 3. Financial Accounting and Financial<br>Statement Analysis | 5    | 3. Engineering Materials                            | 5    |
| 4. Operations Management                                    | 5    | 4. Industrial Organisation and Game Theory          | 5    |
| 5 Business Applications of Information<br>Systems           | 5    | 5. Strategic Management                             | 5    |
| 6. Econometrics   | 5    | 6. Data Analysis                                    | 5    |
| 7 <sup>th</sup> Semester                                    | ECTS | 8 <sup>th</sup> Semester                            | ECTS |
| 1. Simulation   | 5    | 1. Human Resources Management                       | 5    |
| 2. Cost Accounting  | 5    | 2. Marketing  | 5    |
| 3. Decision Analysis and Knowledge<br>Engineering           | 5    |   |      |
| 4. Technology and Innovation<br>Management                  | 5    |   |      |
| Track Courses: 2  | 10   | Track Courses: 4                                    | 20   |
| 9 <sup>th</sup> Semester                                    | ECTS | 10 <sup>th</sup> Semester                           | ECTS |
| 1. Track Courses & General Electives: 5                     | 25   | 1. Track Courses & General Electives: 1             | 5    |

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|                   |   |                   |    |
|-------------------|---|-------------------|----|
| 2. Diploma Thesis | 5 | 2. Diploma Thesis | 25 |
|-------------------|---|-------------------|----|

## Track Courses

## Track I: Financial Engineering

| FALL SEMESTER  |      | SPRING SEMESTER   |      |
|--|------|---|------|
| Compulsory Courses   | ECTS | Compulsory Courses  | ECTS |
| 1. Financial Econometrics (7 <sup>th</sup> Semester)                   | 5    | 1. Portfolio Management (8 <sup>th</sup> Semester)                            | 5    |
| 2. Operations Research II (7 <sup>th</sup> Semester)                   | 5    | 2. Derivatives and New Financial Products (8 <sup>th</sup> Semester)          | 5    |
| 3. Financial Risk Analysis and Management (9 <sup>th</sup> Semester)   | 5    | 3. Cost-Benefit Analysis and Investment Decisions (8 <sup>th</sup> Semester)  | 5    |
|  |      | 4. Stochastic Models (8 <sup>th</sup> Semester)                               | 5    |
| Elective Courses   |      | Elective Courses  |      |
| 1. Bank Services and Financial Products (9 <sup>th</sup> Semester)     | 5    | 1. Business Evaluation – Mergers and Acquisitions (10 <sup>th</sup> Semester) | 5    |
| 2. International Macroeconomics and Finance (9 <sup>th</sup> Semester) | 5    | 2. Financial Scenarios' Simulation (10 <sup>th</sup> Semester)                | 5    |
| 3. Money, Credit and Banking (9 <sup>th</sup> Semester)                | 5    |   |      |

## Track II: Engineering Management

| FALL SEMESTER   |      | SPRING SEMESTER  |      |
|---|------|--|------|
| Compulsory Courses  | ECTS | Compulsory Courses   | ECTS |
| 1. Operations Research II (7 <sup>th</sup> Semester)                              | 5    | 1. Supply Chain Management I (8 <sup>th</sup> Semester)                                  | 5    |
| 2. Modeling, Analysis and Design of Stochastic Systems (7 <sup>th</sup> Semester) | 5    | 2. Production Systems (8 <sup>th</sup> Semester)   | 5    |
| 3. Project Management (9 <sup>th</sup> Semester)                                  | 5    | 3. Systems' Reliability (8 <sup>th</sup> Semester)                                       | 5    |
|   |      | 4. Cost-Benefit Analysis and Investment Decisions (8 <sup>th</sup> Semester)             | 5    |
| Elective Courses  |      | Elective Courses   |      |
| 1. Environmental Systems Design and Implementation (9 <sup>th</sup> Semester)     | 5    | 1. Quality Systems (10 <sup>th</sup> Semester)   | 5    |
| 2. Business Process Management Systems (9 <sup>th</sup> Semester)                 | 5    | 2. E-business and the Management of the Networked Enterprise (10 <sup>th</sup> Semester) | 5    |
| 3. New Product Development *2 (9 <sup>th</sup> Semester)                          | 5    | 3. Supply Chain Management II (10 <sup>th</sup> Semester)                                | 5    |
| 4. Special Topics in Operations Management (9 <sup>th</sup> Semester)             | 5    |  |      |

## General Electives\*1

| FALL SEMESTER                              |      | SPRING SEMESTER                         |      |
|--|------|---|------|
| 9 <sup>th</sup> SEMESTER                   | ECTS | 10 <sup>th</sup> SEMESTER               | ECTS |
| 1. Energy Systems: Theory and Applications | 5    | 1. Computer Networks and Communications | 5    |
| 2. Web Application Development             | 5    | 2. Entrepreneurship *4                  | 5    |
| 3. Production Processes                    | 5    | 3. Applied Matrix Theory                | 5    |
| 4. Business Communication                  | 5    | 4. Mathematical Analysis                | 5    |
| 5. Special Topics in Operations Research   | 5    | 5. Services' Marketing                  | 5    |
| 6. Deep - Machine Learning                 | 5    | 6. Risk Analysis                        | 5    |

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|   |   |   |   |
|---|---|---|---|
| 7. Network Analysis* <sup>2</sup>   | 5 | 7. Scientific Programming in Python                                       | 5 |
| 8. Introduction to Actuarial Science - Insurance Products * <sup>2</sup>    | 5 | 8. Computational/Evolutionary Optimization Methods and Applications       | 5 |
| 9. Electricals – Electronics *  | 5 | 9. Mechanical Behavior and Selection of Materials * <sup>2</sup>          | 5 |
| 10. Venture Capital Financing* <sup>2</sup>                                 | 5 | 10. Corporate Social Responsibility* <sup>6</sup>                         |   |
| 11. Contract Administration - Public Works Law and Regulation* <sup>2</sup> | 5 | 11. Business Game * <sup>2</sup>  | 5 |
| 12. Internship Program * <sup>3</sup>                                       | 5 | 12. Negotiations* <sup>2</sup>  | 5 |
| 13. Corporate Accounting* <sup>4*2</sup>                                    | 5 | 13. Industrial Relations* <sup>2</sup>                                    | 5 |
| 14. Management Accounting * <sup>4*2</sup>                                  | 5 | 14. Economics of Technology* <sup>2</sup>                                 | 5 |
| 15. International Accounting Standards* <sup>4*2</sup>                      | 5 | 15. Algorithms and Advanced Computer Programming Techniques* <sup>2</sup> | 5 |
| 16. Combined Transport* <sup>5*2</sup>                                      |   | 16. Internship Program * <sup>3</sup>                                     | 5 |
|   |   | 17. Applied Statistics * <sup>4*2</sup>                                   | 5 |
|   |   | 18. Market Research* <sup>4*2</sup>                                       | 5 |
|   |   | 19. Consumer Behavior * <sup>4*2</sup>                                    | 5 |
|   |   | 20. Non-parametric statistics * <sup>4*2</sup>                            | 5 |
|   |   | 21. Demand Analysis * <sup>5*2</sup>                                      | 5 |
|   |   | 22. Decision Making in Transport* <sup>5*2</sup>                          | 5 |
|   |   | 23. International Marketing * <sup>5*2</sup>                              | 5 |

\*<sup>1</sup> Students who have chosen a specific track may choose courses from the other track as General Electives (GE)

\*<sup>2</sup> These courses will not be available during the academic year 2020-21

\*<sup>3</sup> The Internship Program is considered as a General Elective course if the student participates in the Program at least twice during the course of studies and prepares project work under the supervision of a tutor.

\*<sup>4</sup> This course is offered by the Department of Business Administration. The course outline can be found at the Student Guide of the Department of Business Administration ([http://www.ba.aegean.gr/default\\_en.asp](http://www.ba.aegean.gr/default_en.asp)).

\*<sup>5</sup>. This course is offered by the Department of Shipping, Trade and Transport. The course outline can be found at the Student Guide of the Department of Shipping, Trade and Transport (<https://www.stt.aegean.gr/en/general-information/curriculum/>).

\*<sup>6</sup>. This course is offered by the Department of Economics and Management of Tourism (<http://www.tourem.aegean.gr/domi-programmatos-spydon> )

For a detailed outline of each course, please visit the Department's website at <http://www.fme.aegean.gr/en/courses>

## **Academic Regulations**

### **Academic Year– Study Semesters**

The academic year begins officially on September 1<sup>st</sup> and ends on August 31<sup>st</sup> of each year. Each academic year is comprised of two semesters, fall and spring. Every year, the Academic calendar is set by the University Senate.

Each semester includes 13 full teaching weeks.

The corresponding dates for the academic year 2020-21 have been set as follows:

|   |   |
|---|---|
| <b>Repeat Exam period (September)</b>             | <b>31.08.2020 to 02.10.2020</b>   |
| <b>Fall Semester 2020-21</b>                      | <b>From 05.10.2020 to 15.01.2021</b><br>(Christmas Holidays from 24.12.2020 to 06.01.2021). |
| <b>Final Examination Period (Fall Semester)</b>   | <b>From 18.01.2021 to 12.02.2021</b>  |
| <b>Spring Semester 2020-21</b>                    | <b>From 15.02.2021 to 28.05.2021</b><br>(Easter Holidays from 26.04.2021 to 09.05.2021))    |
| <b>Final Examination Period (Spring Semester)</b> | <b>From 31.05.2021 to 25.06.2021</b>  |

### **Official Holidays:**

- 28/10/2020: National Holiday
- 11/11/20, 22/07/21: Local Holidays
- 17/11/2020 Anniversary students' uprising at the National Technical University of Athens (1973)
- 30/01/2021 Religious Holiday
- 15/03/2021 Ash Monday
- 25/03/2021 National Holiday
- 01/05/2021 MayDay
- Students' Election Day
- 21/06/2021 Holy Spirit National Holiday

## **Registration and Attendance**

### **Initial Registration**

Student enrollment begins with the initial registration. First-year students register at the beginning of the fall semester, during a registration period that applies to all Higher Educational Establishments. This period is set centrally by the Ministry of Education and Religion and is published in the daily Press.

Students in special categories (i.e. on transfer from other Universities or graduates from other departments) are required to submit the necessary documents specified by relevant regulatory provisions, within a specified time period.

### **Welcome Seminar**

First-year students are welcomed by the Department in a free entrance special orientation seminar which becomes a meeting point for the whole academic community. It usually takes place during the first week of the Fall Semester, it is organized by the Department and is open to all first year students, to older students and to the general public.

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During the seminar, students get acquainted with the university, the Department's curriculum and study program, the available services, policies and procedures, and life conditions on the island. First year students can interact with members of the faculty and administrators. The seminar aims to inform students about:

- The Department, its curriculum and regulations.
- The key elements of the structure and function of the Department within the University
- The analytic description of first semester courses
- The various athletic and cultural activities offered
- An open discussion of issues of academic and professional interest, where students, professors and alumni are invited to contribute

During the orientation seminar, special presentations are made by faculty members, administrative staff and representatives of the Students' Association.

**The Academic Advisor**

The Academic Advisors are designated by the Department's General Assembly. Each instructor may be appointed as academic advisor for up to 15 students. The Academic Advisors offer support to students so that they can meet the requirements of student life and their academic obligations. They also assist students with course scheduling, and long-term academic planning, always taking into account their individual interests and potential. Students may turn to their advisors for assistance when general difficulties are encountered, or problems arise in the course of studies.

Advisors meet with students, either individually or in groups, on a regular basis, and no less than twice a semester. The meetings can take place on or off campus in agreement among the parties concerned.

An Academic Advisor's duties include:

- helping students personalize the curriculum combining specialization courses and electives
- helping them realize their academic potential by following their inclinations and advising them on suitable tracks
- guiding students in course scheduling, track selection, long-term academic planning, decisions pertaining to the topic of their diploma thesis, etc.
- assisting students in professional career orientation based on their individual interests
- providing information about studies abroad, postgraduate programs, scholarships and grants as well as seminars, extra-curriculum courses, and other programs which will complement a students' professional career
- facilitating contact with the University authorities when necessary

**Registration to Courses**

According to current provisions, enrollment of students to courses should take place at the beginning of each semester on dates set by the Dean's Office. Enrollment to courses indicates the courses of the study program that the student wishes to attend during the specific semester (course statement). Both registration and enrollment to courses are necessary actions for the students to have an active presence in the establishment.

Within three weeks from the beginning of the semester, each student must declare to the Students' Secretariat which of the courses offered during of the semester he/she wishes to attend. Enrollment to courses takes place through the online UNIVERSITY STUDENTS PLATFORM <https://studentweb.aegean.gr/>. Enrollment to courses allows students to:

- attend courses and participate in labs
- take part in course examinations
- receive textbooks and notes.

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By selecting courses, each student prepares his / her individual study program for the semester. In order to select courses, a student looks at the indicative study program proposed for his / her semester of study and consults with his / her Academic Advisor. **The maximum number of courses students can register for per academic year is  $n+6$ , where  $n$  represents the number of courses on the indicative curriculum for the year in question.** Consequently, a student can allocate the six additional courses over the two semesters of a year. For example, a student can attend 4 extra courses during the fall semester and 2 extra courses during the spring semester in an academic year. In the final year of studies,  $n$  equals to 12. From the sixth year on, there is no limit to the number of courses a student can register for.

Late enrollment to courses is only accepted under special circumstances provided that a relevant application form has been submitted to the Department's General Assembly. The latter will decide upon the matter by the end of the fourth week from the beginning of the semester.

Failure of a student to electronically enroll to courses signifies his/her exclusion from the semester's exams.

**Registration to Tracks**

At the beginning of the seventh semester, and after having been successfully examined in at least 20 core courses of the first three years of the academic curriculum, students are invited to select the track in which they will specialize. Track selection and completion indicates the scientific specialization upon which the student has decided to focus. Track selection is crucial in that it should correspond to the students' individual interests and aptitudes as well as to their academic and career potential. In this decision, students can be supported by their Academic Advisors.

Track selection – as well as any change of selected track- takes place during the course enrollment each semester. Track change is only allowed once. In this case, the student secures all the courses in which he/she has already been successfully examined. Courses that are common between the two tracks count as new track courses. Courses that the student has been successfully examined but are not part of the new track count as General Electives or as additional courses in the diploma's supplement.

If a student enrolls to courses of a different track and he/she is successfully examined, then these courses are considered as General Elective courses.

**Diploma Thesis**

The undertake of a Diploma Thesis is a basic condition for the completion of studies in the Department of Financial & Management Engineering. Writing up a Diploma thesis is compulsory, it accounts for 15% of the final Diploma grade and corresponds to 30 ECTS credits.

**Undertaking and completing a Diploma Thesis**

A prerequisite for undertaking a Diploma Thesis is the successful completion of the majority of courses. To undertake a Thesis the student should be left with no more than seven (7) courses and be at least in the 9th semester of study.

The topic of a Diploma Thesis is decided upon by each student in co-operation with the tutor/professor who accepts to supervise him/her. If necessary, there may be two supervisors on a Diploma Thesis. The Supervisor may be a faculty member of the Department, School or other Greek HEI or an affiliate member of the Department or a member of the Engineering School or of the Business School or a Researcher at a Greek Research Center. A three-member examination committee is set up to examine the Diploma Thesis. At least one faculty member of the Department must participate in this committee. If the supervisor of the Thesis is not a member of the Department (either a faculty member or affiliated tutor), then the other two members of the committee should necessarily come from the Department. At least one member of the examination committee should be a faculty member of the Department.



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Once the topic of the Thesis is selected, the student submits to the Student Secretariat an application form that includes the title of the thesis and a summary of its scope and objectives to be approved by the Department's General Assembly.

The members of the examination committee confirm their participation in the committee either by signing the respective application form or by sending an e-mail to the Secretariat. The topic of the Thesis and the members of the examination committee are approved by the General Assembly. If the student wishes to change both the topic of the thesis and his/her supervisor, he/she should follow the same procedure as the one described above. In case a student wishes to change only the topic of his/her thesis, he/she follows the same procedure but the deadlines described in detail in the following paragraphs apply.

**Implementation of a Diploma Thesis**

Once the thesis has been approved by the Department's General Assembly, it may be submitted for examination within a period of minimum three (3) to a maximum of twelve (12) months. In case the Thesis has not been completed (i.e. the date of presentation has not been announced) within twelve (12) months from the date of its initial approval by the Department's General Assembly, the student must undertake a new dissertation with a new supervisor. The language of writing of the dissertation is either Greek (with an English summary), or English (with a Greek summary).

**Oral Examination and Evaluation of a Diploma Thesis**

For a student to support his / her Thesis, he / she must have up to two (2) pending courses for graduation and be at least in the 10th semester. The oral presentation and examination of the thesis is carried out only if the supervisor approves it. The supervisor then informs the Secretariat of the Undergraduate Program, which makes a public announcement for the date and time of the oral presentation at least one week ahead.

The oral presentation of the Thesis is open to the public and takes place at the University of the Aegean. The presentation can be made at any date between 01/09 and 31/07 but the date of graduation is the date of completion of the examination period (January/February, June and September) in which the student's dissertation was examined.

After the oral presentation, each member of the examination committee completes and signs the Thesis Evaluation Report. Diploma Theses are evaluated at a grading scale from 5 to 10.

**Performance Reports****Examination Periods**

There are three examination periods: January-February, June, and September. The duration of the examination period is two weeks minimum for the January-February and June sessions, and three weeks minimum for the re-sit examination period of September. The Academic calendar is announced by the University well before the beginning of each academic year.

If a student is left with only one course pending for graduation, he/she has the right to be re-examined in an ad-hoc exam immediately after the end of the official examination period. A relevant written request must be submitted, and the examining professor must be contacted prior to the new examination date. No ad-hoc examination can be scheduled, unless the Student Secretariat confirms that the students' pending obligation is limited to only one course.

**Examinations**

Students' assessment procedures are an integral part of the educational process.

The course instructor is the sole responsible for selecting the most appropriate assessment method for his course, as well as for assigning grades, and announcing the results to the students. Details about the assessment procedure

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(number and frequency of examination periods, method of performance assessment) are determined by each instructor at the beginning of the semester and described in the course syllabus approved by the General Assembly.

The assessment procedure is concluded by the students' participation in the specific semester's examination session. Students successfully complete a course when they receive a minimum pass mark of five (5) out of ten (10).

Students who fail in course examinations can participate in the re-sit exams of September. For core courses in the curriculum (compulsory and track courses), failure in the September re-sit exam signals the students' obligation to re-sit the course in the next academic year.

The right for re-examination to improve the grade of a course is given to students only in the September exam period and for the specific academic year. The grade that will be awarded to the student is the one that will result from the last exam even if the student fails the September exam or writes a lower grade than the one of the first exam. In addition, if a student wishes to be re-examined in a course (e.g. to improve the grade) in the next or another academic year, then the course will be added in his / her course statement, i.e. in the  $n + 6$  courses of that academic year and he/she will be allowed to participate in the respective examination periods (January or June). However, if a student enrolls in a course and does not take the exam, he/she will have to inform the Secretariat in order to be allocated with the first passable grade.

The detailed program for the final exams is prepared by the Students' Secretariat in cooperation with a representative from the Students' Union and is announced in time. Details concerning rules and conditions, duties and obligations by both examinees and examiners and the issuance of the exam results are included in the Institutional Examination Regulation (Senate decision no. 28/28.9.2017). For more information please visit: <http://www.fme.aegean.gr/el/news/08112018/idrymatikos-kanonismos-diexagogis-exetaseon-apofasi-sygklitoy-yp-arith-28-2892017> (in Greek).

## **Diploma Award Requirements**

A student can complete the study program and be declared a graduate of DFME after completing at least ten full semesters of study from his first enrollment in the Department. Deviation from this restriction can only be applied to students who have enrolled in the Department under special provisions (e.g. students transferred from other Universities/Departments, enrolled after placement tests, graduates from other University Departments, etc.).

Successful completion of studies requires for a student to have accumulated at least 300 credits (ECTS).

### **Grade of Diploma**

The grade of diploma is determined as the weighted average of the Diploma Thesis (15%) and the Grade Point Average (GPA) of all courses (85%).

For the numerical calculation of the degree, the grade of each course is multiplied by a factor, which is called the "weighting factor" of the course. The sum of the individual products is divided by the sum of the weights of all courses. The Diploma Thesis grade accounts for 15% in the Diploma grade. The Diploma grade is calculated using the following type:

$$\text{Diploma Grade} = 0.85 \times \text{Grade of Courses} + 0.15 \times \text{Diploma Thesis Grade}$$

The Diploma certifies the successful completion of studies. The GPA is printed on the Diploma and is denoted by the terms "Good", "Very Good" and "Excellent" corresponding to the following scale 5.00 – 6.49, 6.50 - 8.49, and 8.50 – 10 respectively.

Students, who have obtained more credits than necessary to fulfill graduation requirements, may request in writing the exemption of one or more course grades in the calculation of the final GPA. From 2015 onwards, additional courses taken appear in the Diploma Supplement.

## **Graduation**

The graduation ceremony is scheduled after the conclusion of the examination periods on dates set by the Rector's Office. Graduation is a formal ceremony in which a graduate pledge before the Rector, the President of the Department and his / her colleagues to uphold his dedication to science and to the holding principles of the Institution.

Students must participate in the graduation ceremony in order to receive their Diplomas. Participation is granted upon submission of the relevant application form along with verification by the Library Service that all accounts have been settled, i.e that the person concerned has settled all possible outstanding issues and a certificate that he/she does not have financial outstanding issues (if he/she resides in the Student Dormitories). Until the graduation day, graduates may receive certification of completion of studies and transcript of records by the Student Secretariat.

Graduates who are living and working abroad and cannot attend the local ceremony are given the option to attend a confession ceremony at a Greek Embassy / Consular Authorities abroad.

## **Certification of Studies**

By submitting relevant applications, students may receive the following certificates:

- *Certificate of enrollment*, confirming students' enrollment for the semester.
- *Transcript of records*, confirming the courses passed and the grades received.
- *Certificate for use by the Military Service*, confirming place and date of initial registration, semesters attended, and examination periods attended.

The student identity is obtained with first enrollment and is valid until graduation. To all intents and purposes, students are considered as responsible adults.

## **Scholarships and Awards**

Students who are distinguished for their academic performance may be awarded individual grants by various sponsors (businesses, organization, individuals). Since the establishment of the Department in 2000, each year, studiousness awards are given to first-time students and graduates of the Department. More than 200 awards have been given to students amounting to over € 200,000.00.

The list of grant holders and the order of priority of the beneficiaries of cash prizes are drawn up by the Secretariat of the Department, based on the approval by the Department's General Assembly.

## **International Student Exchange Programs**

The Department's International Student Exchange program is ruled by the reciprocity principle and follows the principles and guidelines of the Erasmus+ Program for the period 2014-2020.

The program enables the exchange of students within Europe and internationally. Erasmus+ students register for courses in the Host Institute for one semester. Tuition fees are waived, and credits can be transferred, provided the courses obtained at the Host Institution have similar learning outcomes to equivalent courses at the Home Institution. A basic condition for the recognition of these courses is the appropriate proof of academic correspondence, i.e. the tutor responsible of the course must certify the correspondence of the syllabus of the course, in consultation with the Department's Erasmus+ Coordinator. This correspondence is certified in the Learning Agreement signed between the two Institutions before the start of the student's mobility period.

The accommodation of students abroad is provided by the Host Institution. Corresponding regulations apply to foreign students of the ERASMUS + program who come to attend classes at the Department.

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Since 2015-2016, the University of the Aegean participates in the Action "International Mobility between Program Countries and Partner Countries", in the framework of the Erasmus+ Program. The mobility through the "International Mobility" program is addressed to students and staff and concerns studies, teaching and training of incoming and outgoing participants to the cooperating institutions of non-EU countries. The Department of Financial and Management Engineering has entered into cooperation agreements with several university departments abroad and seeks to conclude further agreements with other Institutions. Details about the university institutions abroad with which there are cooperation agreements, the requirements, the conditions, and the process of participation in the ERASMUS + Program are available on the Programme website <http://www.aegean.gr/erasmus>

For a detailed description of entry requirements and the enrollment process, please consult the University's webpage <http://erasmus.aegean.gr/en/>.

**Enrollment of Graduates at the Department of Financial and Management Engineering**

According to the current provisions, the percentage of University graduates, or of equivalent status from Greece or abroad, as well as of the holders of diplomas of higher schools of more than two years and/or of two years of study under the supervision of the Ministry of Education and Religions and other Ministries, is set at 12% on the number of students admitted to each University Department.

The selection of candidates among graduates is made exclusively by qualifying exams in three courses. In particular, the candidates to be enrolled in the Department of Financial and Management Engineering are invited to take examinations in the following courses (of the 1st year of study):

1. Calculus I.
2. Introduction to Computer Science
3. Physics I.

The content of the above courses is proportional to the current Curriculum of DFME. Also, according to the legislation, the order of success of the candidates is determined by the sum of the scores they get in all the examined courses. This includes those who have scored a total score of at least thirty (30) points provided they have scored at least ten (10) points in each of the three (3) courses. The ranking is made in descending score order until the required percentage of candidates is met. If more candidates have the same overall score, relevance of their first degree to DFME's study programme is taken into consideration. If the number of related courses is the same among equivalent candidates, a random pick takes place among these candidates. Selection of candidates with the same overall score as that of the last ranked candidate is not allowed as they are considered supernumerary. By decision of the Department's General Assembly accepted graduate students are exempted from the examination of courses or exercises that were fully or adequately taught at the Department or the School of origin. Under the same decision, graduate students are obliged to be examined in courses or exercises, which according to the curriculum, are considered not to have been fully or adequately taught in the Department or School of origin. In any case, the graduates are exempted from the examination of courses in which they were examined for their admission to the Department, provided that these courses correspond to courses of the Curriculum of the Reception Department.

The dates of submission of applications and of the necessary supporting documents, as well as the dates of the examinations are set by the Ministry of Education, Research and Religions. Usually, the submission of applications and supporting documents takes place from 1 to 15 November of each academic year and the qualifying examinations take place from 1 to 20 December of each academic year.

**Postgraduate Program in Financial & Management Engineering**

For more information please visit: <http://odim.aegean.gr/>

**Master's by Research in Financial & Management Engineering**

For more information please visit: <http://medmode.aegean.gr/>

**Doctoral Diploma (Ph.D.) Studies**

A Ph.D, or Doctoral Diploma (D.D) is an academic qualification which certifies the substantial contribution of its holder to the enhancement and development of current scientific areas of study and the in-depth understanding of the scientific area under investigation. It also testifies that an original and innovative thesis was elaborated in this context. The Department's Doctoral Studies Program is a source of academic prestige and international academic excellence and contributes to the qualitative and quantitative development of its scientific production

A doctoral dissertation should make a substantial contribution to the corpus of scientific knowledge and its originality and scientific tenor is certified by its publication (partially or as whole) in peer-reviewed scientific journals and/or presentations in international conferences.

For more information please visit: <http://www.fme.aegean.gr/el/didaktoriko-diploma>

## **The Student Union**

The Student Union caters for the administrative and educational issues that concern students. The student body elects the Administrative Council of the Union each academic year. The Council consists of 11 members who represent students in various collective bodies including the Senate, the Department's General Assembly, the National Student Union of Greece, etc.

The Student Union organizes athletic events such as basketball and soccer, and cultural activities such as theatre music and dance performances.

For further information, contact The Department's Student Union: ☎ 2271035491 ✉ [fsyllogos@fme.aegean.gr](mailto:fsyllogos@fme.aegean.gr)

## **International Student Associations**

### **A.I.E.S.E.C.**

#### IDENTITY

AIESEC is the world's largest non-profit organization operated by students with a commitment to international understanding and co-operation. It was founded in 1948, and has operated in Greece since 1956 and at the University of the Aegean since 1994.

#### NETWORK

AIESEC. is a global network of 30,000 members across 5 continents, in 83 countries, at about 800 universities worldwide. In Greece the following universities have AIESEC sections:

- The University of Economics of Athens
- The University of Pireaus
- The National Kapodistriako University of Athens
- The University of Macedonia
- The Aristotel University of Thessaloniki
- The University of the Aegean

#### MISSION

The AIESEC facilitates the international exchange of students and recent graduates in paid traineeship schemes or as volunteers for a non-profit organization. Recent graduates and students in their 3<sup>rd</sup>, 4<sup>th</sup>, and senior year of studies may participate for a period of 2 months up to 18 months.

To join AIESEC or for further information on the international exchange program contact:

AIESEC

Michalio Building, Basement

☎: 2271035097

✉: [aiesec@ba.aegean.gr](mailto:aiesec@ba.aegean.gr)

web page: [www.aiesec.gr](http://www.aiesec.gr) [www.aiesec.org](http://www.aiesec.org)

**ESTIEM LG Chios**

**ESTIEM** is the organisation for European Students of Industrial Engineering and Management, who combine technological understanding with management skills. The Association aims to establish and foster relations between students across Europe and to support them in their personal and professional development. **The ESTIEM network** consists of 74 Local Groups in 28 countries, reaching out to 60 000 students.

LG Chios is a full member since 2009

Past Activities of Local Group Chios:

- Activity Week (June 2008)
- Local Qualification TIMES (October 2009)
- Activity Week Reloaded (June 2009)
- Seminar "What is ESTIEM?" (April 2011)
- LG Exchange between Chios-Istanbul Technical University (July 2011)
- Seminar "What is ESTIEM?" (November 2012)
- Local Meetings 2012-2013 -Europe 3D Greece (October 2012)
- LG Exchange between Chios-Aachen (April 2013)
- Student Guide Coordination Meeting (March 2014)

**Local Projects of LG Chios:**

- Public Relations Project

Videos, Posters, Stickers, Event Promotion and Local Group Promotion

- Training & Debate Project

Improve English, Personal, Professional, Presentation Skills

- IT Project

Facebook, Twitter, Instagram etc

- Event Project

Organising and Hosting Local Events

Website: <https://sites.google.com/site/estiemlgchios/>

Official ESTIEM website: [www.estiem.org](http://www.estiem.org)