

ΑΝΑΛΥΤΙΚΟ ΠΕΡΙΓΡΑΜΜΑ ΜΑΘΗΜΑΤΩΝ

1^ο SEMESTER

SKETCHING- DESIGN

1. GENERAL

SCHOOL	DESIGN SCIENCES		
DEPARTMENT	CREATIVE DESIGN AND CLOTHING		
LEVEL OF STUDIES	<i>Undergraduate</i>		
MODULE CODE	101	SEMESTER	1 st
MODULE TITLE	SKETCHING- DESIGN		
TEACHING METHODS AND ACTIVITIES	LEARNING HOURS PER WEEK	CREDIT UNITS	
Lectures	1	5	
Studio exercises	4		
TOTAL	5		
MODULE TYPE	Γενικού Υποβάθρου Ανάπτυξης Δεξιοτήτων <i>γενικού υποβάθρου, ειδικού υποβάθρου, ειδίκευσης γενικών γνώσεων, ανάπτυξης δεξιοτήτων</i>		
PREREQUISITE MODULES			
LANGUAGE OF TEACHING / EXAMS LANGUAGE	Greek		
COURSE OFFERED TO ERASMUS STUDENTS	yes (English)		
MODULE WEB PAGE (URL)			

2. LEARNING OUTCOMES

Learning Aims

Περιγράφονται τα μαθησιακά αποτελέσματα του μαθήματος οι συγκεκριμένες γνώσεις, δεξιότητες και ικανότητες καταλλήλου επιπέδου που θα αποκτήσουν οι φοιτητές μετά την επιτυχή ολοκλήρωση του μαθήματος.

Upon successful completion of the course the student: He will have understood the basic principles and concepts of design. He will have studied the structure of the composition through measurement and methodical observation. He will have understood the elements of form and plasticity. He uses tone scale for volumes. He will have known and understood the structure of Visual Language and how to communicate the message. .

General Skills

- Group & Independent project work
- Evolving of design skills
- Research, analysis and combination of information
- Promoting autonomous, creative and inductive thinking

3. MODULE CONTENT

Theoretical part:

Theory of the basic principles and concepts of Sketching and Design. How the form is observed and performed with shades and tonal values in a work of art. Essential approach of the primary visual elements in the design of objects. Basic elements of the visual language and principles of the Visual Alphabet - Composition. Comparative analysis and connection with classical aesthetic theories and modern theories of Forms. Analysis of individual elements of the Visual Language (point, line, shape, color, movement, direction, texture, etc.).

Studio classwork: The form and the light and how to design them. Development of the design concept and observation which the students are called to develop in their exercises in physical studies. The human body, the model, as a field of understanding the basic concepts of design.

4. TEACHING AND LEARNING METHODS - EVALUATION

TEACHING METHODOLOGY	Theoretical (face to face) teaching with presentation of methodology. Laboratory Exercises. Presentation and then execution of individual work.																		
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	Teaching support through course webpage, students contact electronically																		
TEACHING PLAN	<table border="0"> <thead> <tr> <th data-bbox="660 526 743 551">Activity</th> <th data-bbox="815 526 1035 551">Semester Workload</th> </tr> </thead> <tbody> <tr> <td data-bbox="660 562 743 586">Lectures</td> <td data-bbox="943 562 975 586">25</td> </tr> <tr> <td data-bbox="644 598 775 622">Studio work</td> <td data-bbox="943 598 975 622">35</td> </tr> <tr> <td data-bbox="644 633 775 658">Project</td> <td data-bbox="943 633 975 658">25</td> </tr> <tr> <td data-bbox="644 669 775 694">Creative</td> <td data-bbox="943 669 975 694">25</td> </tr> <tr> <td data-bbox="644 705 775 730">eclass</td> <td data-bbox="943 705 975 730">10</td> </tr> <tr> <td data-bbox="644 741 831 766">educational visits</td> <td data-bbox="943 741 975 766">5</td> </tr> <tr> <td data-bbox="671 943 735 967">Total</td> <td data-bbox="943 943 991 967">125</td> </tr> <tr> <td colspan="2" data-bbox="576 978 895 1003"><i>(25 h Semester Workload / CU)</i></td> </tr> </tbody> </table>	Activity	Semester Workload	Lectures	25	Studio work	35	Project	25	Creative	25	eclass	10	educational visits	5	Total	125	<i>(25 h Semester Workload / CU)</i>	
Activity	Semester Workload																		
Lectures	25																		
Studio work	35																		
Project	25																		
Creative	25																		
eclass	10																		
educational visits	5																		
Total	125																		
<i>(25 h Semester Workload / CU)</i>																			
STUDENT EVALUATION <i>Assessment Language, Assessment Methods, Formative or Conclusive, Multiple Choice Test, Short Answer Questions, Essay Development Questions, Problem Solving, Written Assignment, Report, Oral Exam, Public Presentation, Artistic Project, Other ç.</i>	The final module grades are formed by total student's performance in both theoretical and studio part, provided that the student has been evaluated with a promotional grade in each part of the course.																		

5. RECOMMENDED BIBLIOGRAPHY

EUDOXUS System suggested Bibliography

Papastamoulis K., 2003, Colour and sketch and basic principles
Publissing: ION

Gombrich E. The Story of Art, Publissing: National Bank of Greece Cultural Foundation

Fischer E. (1981), The Necessity of Art, Publissing: Themelio,

Kozakou Tsiara O., 1999, Introduction to the visual language, Gutenberg,

1. GENERAL

SCHOOL	DESIGN SCIENCES		
DEPARTMENT	CREATIVE DESIGN AND CLOTHING		
LEVEL OF STUDIES	Undergraduate		
COURSE CODE	102	SEMESTER	1 st
COURSE TITLE	PRINCIPLES and APPLICATIONS OF BODYMETRICS		
TEACHING METHODS AND ACTIVITIES	LEARNING HOURS PER WEEK	CREDIT UNITS	
Lectures	3	4	
COURSE TYPE	Μάθημα Ειδικής Υποδομής, Υποχρεωτικό (Υποβάθρου)		
ΠΡΟΑΠΑΙΤΟΥΜΕΝΑ ΜΑΘΗΜΑΤΑ:			
ΓΛΩΣΣΑ ΔΙΔΑΣΚΑΛΙΑΣ και ΕΞΕΤΑΣΕΩΝ:	Ελληνική		
COURSE OFFERED FOR ERASMUS STUDENTS	YES (in ENGLISH)		
ΗΛΕΚΤΡΟΝΙΚΗ ΣΕΛΙΔΑ ΜΑΘΗΜΑΤΟΣ (URL)			

1. LEARNING OUTCOMES

Learning Outcomes

In the clothing sector, for many years the way of measuring "standard measurements" and their application to the human body was a topic of discussion.. According to researchers, this depends on the requirements of each customer, which is why there are many different sizes in every country and in export companies. What are the sizes and shapes of the body that exist in a particular population? What is the complex of basic body dimensions? What is the appropriate size option that can be used? The course aims to answer the above questions and offer students the appropriate knowledge and skills related to the study of anthropometric data & sizing systems in the US and Europe to create size charts for personalized mass production of clothing.

After attending the course, students should be able to:

- Recognize the use of anthropometric data in developing size chart systems
- Develop tables of human body anthropometric dimensions
- Know types of body scanning technology
- Describe measurement systems for individualized mass production of garments.
- Determine the way of creating the first size charts but also the need to create the structure of an international sizing system.

General Skills

- Search, analysis and synthesis of data and information, using the necessary technologies.
- Teamwork.
- Project Planning and Management.
- Promoting creative and inductive thinking

1. COURSE CONTENT

- **History of sizing systems and ready-to-wear clothing**

Ergonomics and clothing design
 Anthropometrics
 Silhouette categories
 Anthropometric data selection for clothing design
 Anthropometry and clothing manufacture

- **Methods of anthropometric data acquisition**

Traditional methods

 Tools of measuring bodymetrics dimensions

 Linear & non-linear methods

- **Size Systems for clothing products**

Creation
 International size standards
 Διεθνή στάνταρντ μεγεθών
 Function, application and size
 Size and application communication
 Mass customisation and size
 National Body Measurement Studies (Size UK, Size USA, Size Germany etc)
 research interest in fit evaluation

- **Body Scanning Technology (3D Body Scanners)**

Introduction to equipment
 Case studies with major market scanners
 Scan for mass production of clothing
 Advantages
 Scan for made-to-measure clothing
 Virtual Clothing Fit
 The application of clothes in the future
 Research interests in body scanning

1. TEACHING AND LEARNING METHODS - EVALUATION

TEACHING METHODOLOGY	Lecturing with discussion and students' active participation. During class, share of powerpoint presentation												
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	Self-evaluation e-exercises (Quizes) Communication via e-mail, course moodle and RSS feeds.												
TEACHING PLAN	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><i>Activity</i></th> <th style="text-align: right;"><i>Semester Workload</i></th> </tr> </thead> <tbody> <tr> <td>Lectures</td> <td style="text-align: right;">26</td> </tr> <tr> <td>Writing lab reports and projects</td> <td style="text-align: right;">14</td> </tr> <tr> <td>Self study</td> <td style="text-align: right;">60</td> </tr> <tr style="background-color: yellow;"> <td colspan="2"><hr/></td> </tr> <tr> <td>Total <i>(25 ώρες φόρτου ανά ΔΜ)</i></td> <td style="text-align: right;">100</td> </tr> </tbody> </table>	<i>Activity</i>	<i>Semester Workload</i>	Lectures	26	Writing lab reports and projects	14	Self study	60	<hr/>		Total <i>(25 ώρες φόρτου ανά ΔΜ)</i>	100
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<hr/>													
Total <i>(25 ώρες φόρτου ανά ΔΜ)</i>	100												

STUDENTS EVALUATION	<p>The final grade of the course is shaped by the performance of the students in the theoretical part.</p> <p>The evaluation of the course in terms of the theoretical part, is formed by a written final exam as well as by participation in group work in the form of a project</p> <p>1. The written final examination of the theoretical part includes:</p> <ul style="list-style-type: none"> - Multiple choice questions - Solving problems of application of the acquired knowledge. <p>Comparative evaluation of theory elements.</p> <p>2. The group work is optional, is given at the beginning of the semester and is completed at the end of the lectures with the presentation of the results by the students of the group in the classroom.</p>
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1. RECOMMENDED BIBLIOGRAPHY

Συγγράμματα μέσω του συστήματος ΕΥΔΟΞΟΣ

Aldrich, W., (2005). Σχεδίαση και κοπή γυναικείων ρούχων. Εκδόσεις Ίων. Κωδικός για τον Εύδοξο [14729]

Λάμπρος, Λ., & Γιαννακούρου-Σιούταρη, Μ.,(2003). Σύγχρονη Εργονομία. Παπασωτηρίου. Κωδικός για τον Εύδοξο [9706].

Συγγράμματα που διανέμονται μέσω του Πανεπιστημίου ή της ηλεκτρονικής σελίδας του μαθήματος

Παπαχρήστου, Ε. Σημειώσεις στις "Αρχές & Εφαρμογές Σωματομετρίας". Κιλκίς

Συμπληρωματική προτεινόμενη βιβλιογραφία

Alexander, M., Connell, L. J., & Presley, A. B. (2005). Clothing fir preferences of young female adult consumers. *International Journal of Clothing Science & Technology* , 17 (1), 53-64.

Apeagyei, P. R., & Otieno, R. (2007). Usability of pattern customising technology in the achievement and testing of fit for mass customisation. *Journal of Fashion Marketing and Management* , 11 (3), 349-365.

Cordier, F., Seo, H., & Magnenat-Thalmann, N. (2003). Made-to-measure technologies for an online clothing store. *Computer Graphics and Applications* , 23 (1), 38-48.

Daanen, H., & Hong, S. (2008). Made-to-measure patern development based on 3D whole body scans. *International Journal of Clothing Science and Technology* , 20.

Hlaing, E. C., Krzywinski, S., & Roedel, H. (2013). Garment prototyping based on scalable virtual female bodies. *International Journal of Clothing Science and Technology* , 25 (3), 184-197

Istook, C., & Hwang, S. (2001). 3D body scanning systems with application to the apparel industry. *Journal of Fashion Marketing and Management* , 5 (2), 120-132

Istook, C., Little, T., Hong, H., & Plumlee, T. (2003). Automated Garment Development from Body Scan Data S00-NS15 (formerly I00-S15). *National Textile Center Annual Report: November 2003*

Kim, S., & Park, C. K. (2007). Basic garment pattern generation using geometric modeling method. *International Journal of Clothing Science and Technology* , 19 (1), 7-17.

Leong, I.-F., Fang, J.-J., & Tsai, M.-J. (2013). A feature-based anthropometry for garment industry. *International Journal of Clothing Science and Technology* , 25 (1), 6-23

Simmons, P. K., & Istook, C. L. (2003). Body measurement techniques, Comparing 3D body-scanning and anthropometric methods for apparel applications. *Journal of Fashion Marketing and Management* , 7 (3), 306-332

Yang, Y., & Zhang, W. (2007). Prototype garment pattern flattening based on individual 3D virtual dummy. *International Journal of Clothing Science and Technology* , 19 (5), 334-348

ASTM International <http://www.astm.org>

International Organisation for Standardization (ISO)

[TC]2, www.tc2.com

Bodymetrics, www.bodymetrics.com

Assyst, <https://www.assyst.de/>

HISTORY OF ART AND COSTUME I

1. GENERAL

SCHOOL	DESIGN SCIENCES		
DEPARTMENT	CREATIVE DESIGN AND CLOTHING		
LEVEL OF STUDIES	<i>Undergraduate</i>		
MODULE CODE	103	SEMESTER	1st
MODULE TITLE	HISTORY OF ART AND COSTUME I		
TEACHING METHODS AND ACTIVITIES	LEARNING HOURS PER WEEK		CREDIT UNITS
Lectures	4		6
Total	4		
MODULE TYPE	Μάθημα Υποχρεωτικό, Υποβάθρου, Γενικής Υποδομής		
PREREQUISITE MODULES :			
LANGUAGE OF TEACHING / EXAMS LANGUAGE	Greek		
COURSE OFFERED TO ERASMUS STUDENTS	yes (in english)		
MODULE WEB PAGE (URL)			

2. LEARNING OUTCOMES

Learning Aims

The course aims, through the contact with the most important periods of art and artworks, to understand the relationship of artistic creation with the general cultural development of each period as well as to acquire the necessary knowledge about the historical components that compose the wide study spectrum for the evolution of Costume through the centuries. Through the combination of theoretical investigation and practical application of the data analyzed during the theoretical presentations of the course, students will be able to identify the historical, social, aesthetic and multidimensional cultural context of the times that defines and marks the currents of clothing evolution from the beginning of human life until the period of Renaissance.

After attending the course students should:

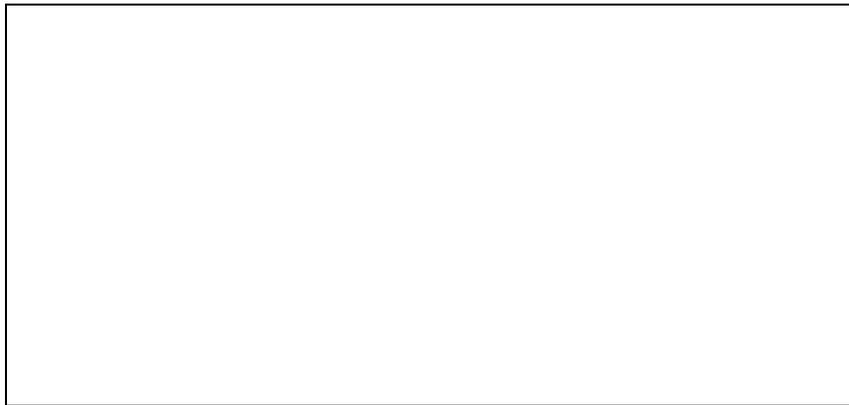
- Understand the value of art as a continuous human creation.
- To be able to deal with the multifaceted phenomenon of art globally and to connect it in general with human society and clothing in every age.
- To be able to observe and understand the works of world art in different periods of history.
- To understand that the perceptions of each era and the different approaches of each artist to them affect the form and content of the work of art & capture the clothing of the respective period.
- To be aware of the big questions that people ask and the ways in which they are answered through art.
- Recognize the individual elements and influences of clothing of each historical period. Be able to observe and understand works of world art in different periods of history.
- To become familiar with the relevant terminology and to acquire tools for the description and analysis of works of art.
- To develop critical thinking in the way of approaching the works through the "reading" of their morphological characteristics and the inference of information about the time that created them.

General Skills

- Individual assignments
 - Teamwork
 - Research, analysis and synthesis of information, use of various technologies
- Exercising criticism and self-criticism

3. MODULE CONTENT

Through a combination of theoretical inquiry and practical application of the elements of the course modules, students will be able to identify the historical, social, aesthetic and multi-dimensional cultural context of the historic periods that defines and marks the new trends of Fashion until the emergence of Haute Couture. During the module, the main elements of the models in male and female appearance that define the modern concept of the multidimensional social phenomenon of Fashion are studied. The social conditions, the aesthetic values as well as the psychological foundations of Fashion are examined through the historical approach of the periods that contributed to the evolution of clothing from 2000 BC until the Renaissance (15th-16th centuries).



4. TEACHING AND LEARNING METHODS - EVALUATION

<p>TEACHING METHODOLOGY .</p>	<p>The lectures of the subjects of the course will be presented with the use of supervisory means and the projection of digital lessons through the projector of the classroom.</p> <p>Also, during the courses, the internet will be utilized, especially during the execution of the laboratory exercises, as the students will be presented with the way of searching bibliography and using digital media.</p> <p>Field studies in cultural places related to the content of the course.</p>												
<p>USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES</p>	<p>Powerpoint presentations.</p> <p>Learning process support through the course website.</p> <p>Use of the internet and virtual applications to support laboratory exercises.</p> <p>Communication with students via e-mail, the course website and social media</p>												
<p>TEACHING PLAN</p>	<table border="0"> <thead> <tr> <th style="text-align: left;"><i>Activity</i></th> <th style="text-align: right;"><i>Semester Workload</i></th> </tr> </thead> <tbody> <tr> <td>Lectures</td> <td style="text-align: right;">52</td> </tr> <tr> <td>Writing reports</td> <td style="text-align: right;">13</td> </tr> <tr> <td>Self-oriented research</td> <td style="text-align: right;">85</td> </tr> <tr> <td> <i>Module Total</i></td> <td style="text-align: right;"> 150</td> </tr> <tr> <td colspan="2" style="text-align: center;"><i>(25 h Semester Workload / CU)</i></td> </tr> </tbody> </table>	<i>Activity</i>	<i>Semester Workload</i>	Lectures	52	Writing reports	13	Self-oriented research	85	 <i>Module Total</i>	 150	<i>(25 h Semester Workload / CU)</i>	
<i>Activity</i>	<i>Semester Workload</i>												
Lectures	52												
Writing reports	13												
Self-oriented research	85												
 <i>Module Total</i>	 150												
<i>(25 h Semester Workload / CU)</i>													

STUDENT EVALUATION	Final Exam (100%)
<i>Assessment Language, Assessment Methods, Formative or Conclusive, Multiple Choice Test, Short Answer Questions, Essay Development Questions, Problem Solving, Written Assignment, Report, Oral Exam, Public Presentation, Artistic Project, Other</i>	

5. RECOMMENDED BIBLIOGRAPHY

<p><i>EUDOXUS System suggested Bibliography</i></p> <p>Γεωργιτσογιάννη, Ε. & Παντουβάκη, Σ. (2011). <i>Ιστορία της Ενδυμασίας. Ο Δυτικός κόσμος και η Ελλάδα από τους προϊστορικούς χρόνους ως την Αναγέννηση</i>. Αθήνα: Διάδραση.</p> <p>Επίσης διατίθενται σημειώσεις του διδάσκοντος μέσω της ιστοσελίδας του μαθήματος.</p> <p><i>Συμπληρωματική προτεινόμενη βιβλιογραφία</i></p> <p>Danto, A (2004). <i>Η μεταμόρφωση του κοινότοπου. Μια φιλοσοφική θεώρηση της τέχνης</i>. Αθήνα: Μεταίχμιο.</p> <p>Gombrich, E. H. (1998). <i>Το χρονικό της τέχνης</i>. Αθήνα: MIET.</p> <p>Λαγάκου Ν. (1998). <i>Η ενδυμασία δια μέσου των αιώνων</i>. Αθήνα: Δωδώνη.</p>

PHYSICS AND CHEMISTRY OF MATERIALS AND DYES

(1) GENERAL

SCHOOL	DESING SCIENCES		
ACADEMIC UNIT	CREATIVE DESING AND CLOTHING		
LEVEL OF STUDIES	UNDERGRADUATE		
COURSE CODE	104	SEMESTER	1st
COURSE TITLE	PHYSICS AND CHEMISTRY OF MATERIALS AND DYES		

INDEPENDENT TEACHING ACTIVITIES	WEEKLY TEACHING HOURS	CREDITS
Lectures	2	3,5
Laboratory exercises	3	2
COURSE TYPE	General background	
PREREQUISITE COURSES:	No	
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek	
IS THE COURSE OFFERED TO ERASMUS STUDENTS	Yes in English	
COURSE WEBSITE (URL)	e-learning platform (cdc.ihu.gr)	

(2) LEARNING OUTCOMES

Learning outcomes

The course learning outcomes, specific knowledge, skills and competences of an appropriate level, which the students will acquire with the successful completion of the course are described.

After successfully attending the course students will have:

- Basic theoretical knowledge of General and Organic Chemistry.
- Specialized knowledge of textile fibers, colorimetric systems.
- Knowledge of the physics and chemistry of pigments and auxiliary materials and their application.
- Environmental and wastewater management of industrial textiles and dyes.
- Experience related to the experimental investigation of physic-chemical effects on textiles and the use of colorimeters and the color differences.
- Experience on dyeing treatments depending on the type of the fabric.
- Knowledge of the structure of textile fibers, the nature and characteristics of the pigments with which they are dyed.
- Understanding the process of creating color sensation and related parameters as well as interactions of light, object, and observer.
- Ability to describe colorimetric systems.
- Ability to identify and measure color in dyed samples and color solutions with color measurement instruments.

General Competences

Taking into consideration the general competences that the degree-holder must acquire (as these appear in the Diploma Supplement and appear below), at which of the following does the course aim?

General competences that the degree-holder will acquire:

- Search for, analysis and synthesis of data and information, with the use of the necessary technology.
- Respect for the natural environment.
- Production of free, creative and inductive thinking.
- Working independently.
- Team work.

(3) SYLLABUS

Theoretical part:

Structure of the atom. Periodic system, electron theory. Chemical bonds and intermolecular forces between textile fibers and pigments during the dyeing process. Organic compounds. Introduction to physics and chemistry of polymers. Textile fibers. The basic concept of light, object, vision and color mixing. Interaction of light and object, absorption and reflection, transmission, refraction, fluorescence and their relationship to color. Three-dimensional nature of colors and their classification in color systems. Standard light sources and observers, CIE color classification systems.

Color measuring instruments. Visible-ultraviolet and reflective spectrophotometers. Equations of color differences. Acceptance limits. Ultraviolet radiation spf. Sorting colors and auxiliary materials. Dyeing systems and factors affecting them. Physical chemistry of dyeing and finishing processes.

Laboratory part:

Preparation of solutions, standard solutions, electrolytes. PH measurement, indicators. Buffers. pH measurement of textiles. Spectrophotometric color determination, color measurement on dyed fabric. Dyeing of fibers, yarns, fabrics. Qualitative, quantitative process analysis. UV protection indicator UPF.

(4) TEACHING and LEARNING METHODS - EVALUATION

DELIVERY	Face-to-face
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USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY

Use of ICT in teaching, laboratory education, communication with students

TEACHING METHODS

The manner and methods of teaching are described in detail.

Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, placements, clinical practice, art workshop, interactive teaching, educational visits, project, essay writing, artistic creativity, etc.

The student's study hours for each learning activity are given as well as the hours of non-directed study according to the principles of the ECTS

<i>Activity</i>	<i>Semester workload</i>
Lectures,	45
Laboratory practice	45
Essay writing	20
Self-study	27,5
Course total	137,5

<p style="text-align: center;">STUDENT PERFORMANCE EVALUATION</p> <p><i>Description of the evaluation procedure</i></p> <p><i>Language of evaluation, methods of evaluation, summative or conclusive, multiple choice questionnaires, short-answer questions, open-ended questions, problem solving, written work, essay/report, oral examination, public presentation, laboratory work, clinical examination of patient, art interpretation, other</i></p> <p><i>Specifically-defined evaluation criteria are given, and if and where they are accessible to students.</i></p>	<p>Language of the evaluation methods: Greek</p> <p>In theory</p> <p>Written final exam comprising:</p> <ul style="list-style-type: none"> - Short-answer questions - Combination judgment questions -Comparative evaluation of theory data <p>In the laboratory</p> <p>Written examination comprising:</p> <ul style="list-style-type: none"> - Short answer questions - Combination judgment questions - Problem solving - Complete forms in the lab
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(5) ATTACHED BIBLIOGRAPHY

Greek

1. Chemistry of Polymer, G. Karagiannidis, E. Sideridou, Ziti, 2006
2. Chemistry and Technology of Color, I. Eleftheriadi, E. Tsatsaroni,
N. Nikolaidis Publications KALLIPOS e-book
3. University Lectures of Organic Chemical Technology S. Peyiadou,
E. Tsatsaroni, I. Eleftheriadi, AUTh, 2000
4. Art and Communication in Graphic Arts Volume C Color K. Stathakis
I. Eleftheriadis, Hellenic Open University of Patras, 2002
5. Elements of dyeing N. Gripari, Athens 1997
6. Dyeing and Finishing Technology, D. J. Hill, M. E. Hall, D. A. Holmes,
M. Lomas, K. Padmore, Translation Th.Peppas, S. Vassiliadis, Athens 2003
7. D. Thomson, Avtoterba, Armo, Athens, 1997.

Other Languages

1. A. Berger - Schunn, Practical Color Measurement, J. Wiley & Sons, N.Y. 1994
2. F. W. Billmeyer, J. M. Saltzmann, Principles of Colour Technology, J. Wiley
& Sons, N.Y., 1981
3. Carneiro, N., Colour Measurement, Seminar, Thessaloniki, 1992 (EUROTEX).
4. Colour Index, 3rd edition, Society of Dyers and Colourists, American Association
of Textile Chemists and Colorists, Vol. 1-5, Bradford, 1971; CD-ROM 1999
5. Giles, C. H. A., Laboratory Course in Dyeing, 4th edition, The Society of Dyers
and Colourists, Bradford, 1990
6. D. M. Lewis, Wool Dyeing, Society of Dyers and Colourists, Bradford, 1992.
7. R. Donald, Colour physics for industry, Soc. of Dyers and Colourists, Bradford, 1987
8. J. E. McIntyre, The Chemistry of Fibres, Edward Arnold, London, 1971
9. B. Meyer, H. R. Zollinger, Colorimetry, Sandoz, Basle, 1989

10. L. W. C. Miles, Textile Printing, Dyers Company Publication Trust, Bradford, 1981
11. E. D. Stiebner, Drucktechnik heute, Novum Press, Münche, 1990
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Frankfurt / Main, 1980
13. Tensidtaschenbuch, H. Stache, Carl Hanser Verlag, München, Wien, 1981
14. P. Rys, H. Zollinger Leitfaden der Farbstoffchemie, Verlag Chemie, Weinheim,
1976.
15. G. Turner, Paint Chemistry, 2th edition, Chapman & Hall, London, NY, 1980.

DIGITAL DESIGN PRINCIPLES

1. ΓΕΝΙΚΑ

SCHOOL	DESIGN SCIENCES		
DEPARTMENT	CREATIVE DESIGN AND CLOTHING		
LEVEL OF STUDIES	Undergraduate		
COURSE CODE	105	SEMESTER	1 st
COURSE TITLE	DIGITAL DESIGN PRINCIPLES		
TEACHING METHODS AND ACTIVITIES	LEARNING HOURS PER WEEK	CREDIT UNITS	
Lectures	2	5	
Lab exercises	3		
COURSE TYPE:	Special Infrastructure, Compulsory (Scientific Area)		
PREREQUISITE COURSES:			
LANGUAGE OF TEACHING AND EXAMS:	Greek		
THE COURSE IS OFFERED TO ERASMUS STUDENTS	YES (in English)		
COURSE WEBSITE (URL)			

2 LEARNING OUTCOMES

LEARNING OUTCOMES

The aim of the course is to introduce principles and techniques of digital technology that can be used in fashion. Problem solving approach is analyzed and students are introduced to software that can be used in fashion design. Laboratory exercises are oriented to digital technology. The course provides the essential background in order to help students understand relevance and relationships between other courses in the curriculum.

By the end of the course the students are expected to:

- Understand how digital technology can help fashion designers and how new techniques can be applied in fashion design.
- Apply logical and critical thinking in solving problems related to fashion design and technology.
- Design, incorporate and organize information in order to solve complex issues regarding fashion design and technology.
- Understand how to use different software (Photoshop, Illustrator, Rhino) in order to update digital communication strategy.

General Abilities

- Search, analyze and synthesize data and information, using the necessary technologies
 - Teamwork.
- Project planning and management
 - Improvement of open minded, creative and inductive thought

3. COURSE CONTENT

- **Introduction to digital design software**

Introduction to technological infrastructure, software and terminology
Creative and effective application of digital tools and techniques
Page Layout
Illustration
Digital image processing
Creative ways to use specialized software (Photoshop, CorelDraw, Illustrator)
Presentations with Powerpoint & Prezi
Future trends

- **Digital Color**

Color in fashion design
Understanding and forecasting of color trends
International color standards
Color calibration and traceability
Future trends

4. TEACHING & LEARNING METHODS - EVALUATION

DELIVERY METHODS	Face to face theoretical teaching (lectures, discussion) with students' active participation. Powerpoint presentations. Laboratory exercises. Use of commercial and specialized software for fashion.														
USE OF INFORMATION & COMMUNICATION TECHNOLOGIES	Specialized software. Self-assessment quizzes. Electronic communication with students via email, webpage and RSS feeds.														
TEACHING ORGANIZATION	<table border="0" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: left;"><i>Activity</i></th> <th style="text-align: left;"><i>Semester Workload</i></th> </tr> </thead> <tbody> <tr> <td>Lectures</td> <td>26</td> </tr> <tr> <td>Exercises</td> <td>0</td> </tr> <tr> <td>Laboratory Exercises</td> <td>14</td> </tr> <tr> <td>Writing laboratory reports and projects</td> <td>0</td> </tr> <tr> <td>Individual Study</td> <td>85</td> </tr> <tr> <td>Total</td> <td>125</td> </tr> </tbody> </table>	<i>Activity</i>	<i>Semester Workload</i>	Lectures	26	Exercises	0	Laboratory Exercises	14	Writing laboratory reports and projects	0	Individual Study	85	Total	125
<i>Activity</i>	<i>Semester Workload</i>														
Lectures	26														
Exercises	0														
Laboratory Exercises	14														
Writing laboratory reports and projects	0														
Individual Study	85														
Total	125														
STUDENT EVALUATION	<p>1. Final written examination (FE) (50%) which consists of</p> <ul style="list-style-type: none"> - Multiple choice questions - Problem solving questions - Questions that require comparative assessment <p>2. Laboratory examination (LE) (50%) to evaluate students skills regarding use of specialized software.</p> <p>The final score of the course ($FE \cdot 0.5 + LE \cdot 0.5$). FE and LE individual scores should be at least five (5).</p>														

5 RECOMMENDED BIBLIOGRAPHY

Συγγράμματα μέσω του συστήματος ΕΥΔΟΞΟΣ

Wong, W., (1998). Αρχές Σχεδίασης με Χρώμα. Ψηφιακή Σχεδίαση. Εκδόσεις Ίων Κωδικός για τον Εύδοξο [14471]

Ευσταθίου, Κ., (2019). Ψηφιακή Σχεδίαση- 2η Έκδοση. ΕΚΔΟΣΕΙΣ ΝΕΩΝ ΤΕΧΝΟΛΟΓΙΩΝ Κωδικός για τον Εύδοξο [86057354]

Faukner, A., & Chavez, C., (2018). Adobe Photoshop CC Βήμα προς Βήμα Έκδοση 2017. Κωδικός για τον Εύδοξο [77107461]

Συγγράμματα που διανέμονται μέσω του Πανεπιστημίου ή της ηλεκτρονικής σελίδας του μαθήματος

- Σημειώσεις και διαφάνειες Θεωρίας, Κιλκίς.
- Εργαστηριακές ασκήσεις, Κιλκίς.

Συμπληρωματική προτεινόμενη βιβλιογραφία

Best, J., (2017). Colour Design, Theories and Applications. The Textile Book Series. Woodhead Publishing

[International Journal of Fashion Design, Technology and Education](#)

[Journal of Fashion Technology & Textile Engineering,](#)

Mathematical methods in design

1. GENERAL

SCHOOL	DESIGN SCIENCES		
DEPARTMENT	CREATIVE DESIGN AND CLOTHING		
LEVEL OF STUDIES	<i>Undergraduate</i>		
MODULE CODE	106	SEMESTER	1st
MODULE TITLE	MATHEMATICAL METHODS IN DESIGN		
TEACHING METHODS AND ACTIVITIES	LEARNING HOURS PER WEEK		CREDIT UNITS
Lectures	3		5
Practice Assessment			
TOTAL	3		
MODULE TYPE	Γενικών Γνώσεων <i>Υποβάθρου, Γενικών Γνώσεων, Επιστημονικής Περιοχής, Ανάπτυξης Δεξιοτήτων</i>		
PREREQUISITE MODULES	-		
LANGUAGE OF TEACHING / EXAMS LANGUAGE	Greek		
COURSE OFFERED TO ERASMUS STUDENTS	yes (in English)		
MODULE WEB PAGE (URL)	http://moda.teicm.gr/C5347BD2.el.aspx		

2 LEARNING OUTCOMES

Learning Aims

The aim of the course is to develop analytical and critical thinking and to acquire and consolidate basic knowledge of mathematical concepts and techniques that are required to cover cognitive objects related to the creation, design & production of clothing as well as management & marketing.

After successful attendance of the course, students will have improved critical thinking, assessment ability and creativity. They will also have assimilated the basic mathematical tools from the algebra and geometry they need in their curriculum. Finally, they will have acquired the basic skills to analyze problems in order to rationalize conclusions, will have acquired a solid mathematical background in the techniques taught, and will be able to use them effectively to solve application problems

General skills

- Implementing knowledge in practice
- Retrieve, analyze and synthesize data and information, using the necessary technologies
- Make decisions
- Promoting free, creative and inductive thinking
- Working in an interdisciplinary environment

3. MODULE CONTENT

Basic Elements of Algebra: Naturals, Integers, Decimals, Rounding, Reals, Powers, Roots, Units, Fractions, Percentages and Ratios: fraction equivalence, fraction comparisons, fractional operations, percentages, ratios, proportional quantities and graphs, Equations, inequalities and Functions: the concept of variable, logarithms, linear equations and quadratics, solving systems of linear equations, basic functions

Basic concepts of Geometry and Trigonometry: straight lines and line segments, angles (measurements and comparison), special types of angles, complementary and supplementary angles, trigonometric numbers

Plane geometry: Triangles, Pythagorean theorem, equation of triangles, rectangles, parallelograms, trapezoids, circles, inscribed angles, arc lengths, polygons, areas

Solid Geometry: coordinate systems, dihedral and trihedral angles, prism, cylinder, pyramid, cone, sphere, positions of straight lines and planes with respect to spheres, volumes

Geometrical constructions: construction of rectilinear segments, corner construction, polygon construction, circle and arch construction, 3D geometric constructions

4. TEACHING AND LEARNING METHODS - EVALUATION

TEACHING METHODOLOGY	Face to face lectures in class
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	Teaching support through course webpage, students contact electronically

TEACHING PLAN	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><i>Activity</i></th> <th style="text-align: right;"><i>Semester Workload</i></th> </tr> </thead> <tbody> <tr> <td>Lectures</td> <td style="text-align: right;">26</td> </tr> <tr> <td>Tutoring</td> <td style="text-align: right;">13</td> </tr> <tr> <td>Self study</td> <td style="text-align: right;">86</td> </tr> <tr> <td colspan="2" style="text-align: center;"> </td> </tr> <tr> <td style="text-align: center;">Module Total</td> <td style="text-align: right;">125</td> </tr> <tr> <td colspan="2" style="text-align: center;"><i>(25 h Semester Workload / CU)</i></td> </tr> </tbody> </table>	<i>Activity</i>	<i>Semester Workload</i>	Lectures	26	Tutoring	13	Self study	86	 		Module Total	125	<i>(25 h Semester Workload / CU)</i>	
<i>Activity</i>	<i>Semester Workload</i>														
Lectures	26														
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Module Total	125														
<i>(25 h Semester Workload / CU)</i>															
STUDENT EVALUATION	<p><i>Assessment Language, Assessment Methods, Formative or Conclusive, Multiple Choice Test, Short Answer Questions, Essay Development Questions, Problem Solving, Written Assignment, Report, Oral Exam, Public Presentation, Artistic Project, Other c.</i></p> <p>Final Exam (100%), containing problem solving and short answer questions.</p>														

5. RECOMMENDED BIBLIOGRAPHY

<ol style="list-style-type: none"> 1) Karageorgos A., Dinakis I, Rapti E., «Elements of Mathematics with applications in cabinetry», Hellenic Academic ebooks, (www.kallipos.gr), 2015. 2) Spiegel M.R. & Moyer R.E., «College Algebra», Kleidarithmos Publishing, 2007. 3) Karapistolisç N.D., «Mathematics for Economists», Athanasiou-Atintzi Publishing, 2012. 4) Voskoglou M.G., «Higher Mathematics for engineers and economists», Voskoglou Publishing, 2012. 5) Vougiouklis T., «Geometry and Analytic Geometry», Spanidis Publishing, 2009. 6) Bradley T., «Essential Mathematics for economics and business», Kritiki Publishing, 2014. 7) Xenos T.P., «Practical Algebra», Ziti Publishing, 2001. 8) Apostolopoulos T. & Apostolopoulos K., «Practical Algebra», Stamoulis Publishing, 2005. 9) Halatsis A., «Geometry», Ziti Publishing, 2006.
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2° SEMESTER

Colour and Pattern

1. GENERAL

SCHOOL	DESIGN SCIENCES		
DEPARTMENT	CREATIVE DESIGN AND CLOTHING		
LEVEL OF STUDIES	Undergraduate		
MODULE CODE	201	SEMESTER	2st
MODULE TITLE	COLOUR AND PATTERN		

TEACHING METHODS AND ACTIVITIES		LEARNING HOURS PER WEEK	CREDIT UNITS
Work	Studio	3	4
	Lectures	1	
	TOTAL	4	
MODULE TYPE	Γενικού υποβάθρου		
γενικού υποβάθρου, ειδικού υποβάθρου, ειδίκευσης γενικών γνώσεων, ανάπτυξης δεξιοτήτων			
PREREQUISITE MODULES	Sketching - Design		
LANGUAGE OF TEACHING/EXAMS LANGUAGE	Greek		
COURSE OFFERED TO ERASMUS STUDENTS	Yes (in English)		
MODULE WEB PAGE (URL)			

2. LEARNING OUTCOMES

Learning Aims
<p>Περιγράφονται τα μαθησιακά αποτελέσματα του μαθήματος οι συγκεκριμένες γνώσεις, δεξιότητες και ικανότητες καταλλήλου επιπέδου που θα αποκτήσουν οι φοιτητές μετά την επιτυχή ολοκλήρωση του μαθήματος.</p> <p>Συμβουλευτείτε το Παράρτημα Α</p> <ul style="list-style-type: none"> Περιγραφή του Επιπέδου των Μαθησιακών Αποτελεσμάτων για κάθε ένα κύκλο σπουδών σύμφωνα με το Πλαίσιο Προσόντων του Ευρωπαϊκού Χώρου Ανώτατης Εκπαίδευσης <p>Περιγραφικοί Δείκτες Επιπέδων 6, 7 & 8 του Ευρωπαϊκού Πλαισίου Προσόντων</p>

Upon successful completion of the course the student: They will have the necessary knowledge to understand basic concepts of color. They will be able to use the dye easily. They will have the necessary knowledge to use materials. They will explore new expressions without the limits of the material. They will have gained experience in "making" by decoding their own medium, the material. They will be able to express themselves and communicate verbally, using appropriate terminology on chromatology and materials. They will have been introduced to the most prevalent decorative motifs in the history of art and fashion. They will know ArtNouveau, cubism, pop art, opart and other artistic currents. Ethnicity and its performance in Fashion. Symbols and symbolisms of shape and color.

General Skills

- Independent work
- Teamwork practice
- • Exercise criticism and self-criticism
- Promoting autonomous, creative and inductive thinking

3. MODULE CONTENT

theoretical Part of the Course Theory of the basic principles and concepts of color. How color was used in the visual and applied arts. Laboratory part of the Course: The form and the color in the Free Design. Development of design concept with color. Approach to the various topics that students are asked to develop in their exercises in studies in order to gain an understanding of color. Analysis of how the form is observed and rendered with color. Research, study of decorative motifs as they appear in history, art history and fashion. Pattern and weaving exercises such as plaid. Creating new ones, drawing on the originals. ArtNouveau, cubism, pop art, opart and other artistic currents will be some of the fields of study. Study and performance in the garment of those elements (color, lines) that highlight a style. Ethnicity and its performance in Fashion. Symbols and symbolisms of shape and color.

4. TEACHING AND LEARNING METHODS - EVALUATION

TEACHING METHODOLOGY	Face to face theoretical teaching (lectures, discussion) with students' active participation. Powerpoint presentations.
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	Communication with students via e-mail, module website and interaction within a closed social network group.

TEACHING PLAN	Activity Semester Workload												
<p>Περιγράφονται αναλυτικά ο τρόπος και μέθοδοι διδασκαλίας. Διαλέξεις, Σεμινάρια, Εργαστηριακή Άσκηση, Άσκηση Πεδίου, Μελέτη & ανάλυση βιβλιογραφίας, Φροντιστήριο, Πρακτική (Τοποθέτηση), Κλινική Άσκηση, Καλλιτεχνικό Εργαστήριο, Διαδραστική διδασκαλία, Εκπαιδευτικές επισκέψεις, Εκπόνηση μελέτης (project), Συγγραφή εργασίας / εργασιών, Καλλιτεχνική δημιουργία, κ.λπ.</p> <p>Αναγράφονται οι ώρες μελέτης του φοιτητή για κάθε μαθησιακή δραστηριότητα καθώς και οι ώρες μη καθοδηγούμενης μελέτης σύμφωνα με τις αρχές του ECTS</p>	<table> <tr> <td>Lecture</td> <td>25</td> </tr> <tr> <td>Studio Work</td> <td>45</td> </tr> <tr> <td>inspiration</td> <td>15</td> </tr> <tr> <td>Self-oriented research</td> <td>10</td> </tr> <tr> <td>eclass</td> <td>5</td> </tr> <tr> <td>Module Total</td> <td>100</td> </tr> </table> <p>(25 h Semester Workload / CU)</p>	Lecture	25	Studio Work	45	inspiration	15	Self-oriented research	10	eclass	5	Module Total	100
Lecture	25												
Studio Work	45												
inspiration	15												
Self-oriented research	10												
eclass	5												
Module Total	100												
<p>STUDENT EVALUATION</p> <p><i>Assessment Language, Assessment Methods, Formative or Conclusive, Multiple Choice Test, Short Answer Questions, Essay Development Questions, Problem Solving, Written Assignment, Report, Oral Exam, Public Presentation, Artistic Project, Other</i></p>	<p>The final module grades are formed by total student's performance in both theoretical and studio part, provided that the student has been evaluated with a promotional grade in each part of the course.</p> <p>The evaluation of the course in terms of the theoretical part, is formed by final written work & presentation.</p> <p>1. The final written examination of the theoretical part includes</p> <ul style="list-style-type: none"> ● Public theme ● Multiple Choice Test <p>2. Studio work exams include the evaluation of the practical skills acquired throughout the semester, and related briefs/ projects implementation set within the whole module.</p>												

5. RECOMMENDED BIBLIOGRAPHY

Εισαγωγή στην Ψυχολογία των Χρωμάτων. Χρωματοψυχολογία, Φαράντου Γ. Πέγκη, Εκδοτικός Όμιλος ΙΩΝ, 2015
 Τέχνη του Χρώματος, Itten Johannes, Κείμενα Εικαστικών Καλλιτεχνών, 1998
 Η εικαστική σκέψη, Π. Κλέε, 1989, Τόμ. 1& Τόμ 2, Μέλισσα, 2000
 Chromaphilia: The Story of Colour in Art, Stella Paul, Phaidon

FASHION PRODUCT DESIGN

1. GENERAL

SCHOOL	DESIGN SCIENCES		
DEPARTMENT	Creative Design & Clothing		
LEVEL OF STUDIES	<i>undergraduate</i>		
MODULE CODE	202	SEMESTER	2nd
MODULE TITLE	FASHION PRODUCT DESIGN		
TEACHING METHODS AND ACTIVITIES			
	Lectures	1	4
	Studio Work	3	
	TOTAL	4	
MODULE TYPE	Compulsory, Scientific Field Module, Skills Development Specialty		
PREREQUISITE MODULES :			
LANGUAGE OF TEACHING / EXAMS LANGUAGE	Greek		
COURSE OFFERED TO ERASMUS STUDENTS	yes (in English)		
MODULE WEB PAGE (URL)			

2. LEARNING OUTCOME

Learning Aims

- The fashion garment product is a consumer product serving as a cultural factor in human societies. Its special features meet the daily needs (work, comfort, etc.), special body types and other fashion parameters signifying every season. Through the study of garment classifications, key items and their typology, the module aims to approach knowledge & design skills related to individual garment characteristics of modern fashion. "Inspiration" and its function throughout the design process will be investigated. Main purpose of the course is to integrate sections from design theory (design methodologies, theoretical disciplines and tools) into the practical use of traditional and contemporary media within the creative product design process.
- On successful attendance of the module students should:
- Understand the type and function of each garment.
- Recognize and name the individual typological characteristics of garments.
- Understand key factors (gender, age) that function as constraints on the character and function of the garment.
- To accurately design a fashion product by capturing its individual characteristics (silhouette, line, fabric, etc.).
- Understand and design the body-fabric-clothing relationship and dynamics.
- Use "inspiration" as a powerful design tool.
- To design garments on a fashion figure template with different bodymetric characteristics.
- Draw inspiration from patterns and objects developing an innovative design proposal.
- Comprehend different garment volumes.

General Skills

- Independent work
- Teamwork practice
- Exercise criticism and self-criticism
- Promoting autonomous, creative and inductive thinking

3. MODULE CONTENT

- Figure design in B/W format
- Study & design of different silhouette types from the 20s to the 80s (sack line, barrel, hourglass, etc.)
- Rendering of ruffles, folds and volumes of the garment.
- Transforming and rendering garment elements from the past decades in modern clothing.
- Design variations on the "little black dress".
- Male figure design of Dandy style.
- Menswear garment design
- • Research inspiration, design and development of garment all-over prints from Art, nature, etc.

4. TEACHING AND LEARNING METHODS - EVALUATION

TEACHING METHODOLOGY.	face to face in class												
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	Communication with students via e-mail, module website and interaction within a closed social network group.												
TEACHING PLAN ±	<table border="0"> <thead> <tr> <th style="text-align: left;"><i>Activity</i></th> <th style="text-align: right;"><i>Semester Workload</i></th> </tr> </thead> <tbody> <tr> <td>Lectures</td> <td style="text-align: right;">10</td> </tr> <tr> <td>Studio Work</td> <td style="text-align: right;">40</td> </tr> <tr> <td>Self-oriented research</td> <td style="text-align: right;">50</td> </tr> <tr> <td style="text-align: center;">Module Total</td> <td style="text-align: right;">100</td> </tr> <tr> <td colspan="2" style="text-align: center;">(25 h Semester Workload / CU)</td> </tr> </tbody> </table>	<i>Activity</i>	<i>Semester Workload</i>	Lectures	10	Studio Work	40	Self-oriented research	50	Module Total	100	(25 h Semester Workload / CU)	
<i>Activity</i>	<i>Semester Workload</i>												
Lectures	10												
Studio Work	40												
Self-oriented research	50												
Module Total	100												
(25 h Semester Workload / CU)													
STUDENT EVALUATION <i>Assessment Language, Assessment Methods, Formative or Conclusive, Multiple Choice Test, Short Answer Questions, Essay Development Questions, Problem Solving, Written Assignment, Report, Oral Exam, Public Presentation, Artistic Project, Other</i>	<p>The final module grades are formed by total student's performance in both theoretical and studio part, provided that the student has been evaluated with a promotional grade in each part of the course.</p> <p>The evaluation of the course in terms of the theoretical part, is formed by final written work & presentation.</p> <p>1. The final written examination of the theoretical part includes:</p> <ul style="list-style-type: none"> - Public theme group-presentation - Multiple Choice Test <p>2. Studio work exams include the evaluation of the practical skills acquired throughout the semester, and related briefs/ projects implementation set within the whole module (book evaluation).</p>												

5. RECOMMENDED BIBLIOGRAPHY

EUDOXUS System suggested Bibliography

1. Book [59396943]: Μόδα. Δημιουργικό Σχέδιο, Χρώματα, Στυλ., Eberle Hannelore, Salo Tuula, Dollé Hannes
2. Book [14528]: Ελεύθερη Σχεδίαση Μόδας - Σκαριφήματα, D'Ortenzio D. Alfred

Additional suggested bibliography

1. SPROLES, G.B. & BURNS, L. D. (1994). *Changing Appearances. Understanding Dress in Contemporary Society*. USA: Fairchild Publications.
2. TATE, S. L. (1984). *Inside Fashion Design. 2d edition*. New York: Harper & Row Publishers Inc.
3. Thomas, R. K. (1969). *Three-Dimensional Design: A Cellular Approach*. London: Reinhold Book Corporation.
4. DIAMOND J., & DIAMOND, E. (1997). *The World of Fashion*. USA: Fairchild Publications.
5. ROUSE, E. (1989). *Understanding Fashion*. Oxford: BSP Professional Books.

HISTORY OF ART AND COSTUME II

1. GENERAL

SCHOOL	DESIGN SCIENCES		
DEPARTMENT	CREATIVE DESIGN & CLOTHING		
LEVEL OF STUDIES	<i>Undergraduate</i>		
MODULE CODE	203	SEMESTER	2o
MODULE TITLE	HISTORY OF ART AND COSTUME II		
TEACHING METHODS AND ACTIVITIES	LEARNING HOURS PER WEEK	CREDIT UNITS	
Lectures	4	6	
TOTAL	4		
MODULE TYPE	Μάθημα Υποχρεωτικό, Υποβάθρου, Γενικής Υποδομής		
PREREQUISITE MODULES			

LANGUAGE OF TEACHING / EXAMS LANGUAGE	GREEK
COURSE OFFERED TO ERASMUS STUDENTS	YES (in english)
MODULE WEB PAGE (URL)	

2. LEARNING OUTCOMES

Learning Aims
<p>The course aims, through the contact with the most important periods of art and artworks, to understand the relationship of artistic creation with the general cultural development of each period as well as to acquire the necessary knowledge about the historical components that compose the wide study spectrum for the evolution of Costume through the centuries. Through the combination of theoretical investigation and practical application of the data analyzed during the theoretical presentations of the course, students will be able to identify the historical, social, aesthetic and multidimensional cultural context of the times that defines and marks the currents of clothing evolution from Renaissance until the end of the 19th century in Europe.</p> <p>After attending the course students should:</p> <ul style="list-style-type: none"> • Understand the value of art as a continuous human creation. • To be able to deal with the multifaceted phenomenon of art globally and to connect it in general with human society and clothing in every age. • To be able to observe and understand the works of world art in different periods of history. • To understand that the perceptions of each era and the different approaches of each artist to them affect the form and content of the work of art & capture the clothing of the respective period. • To be aware of the big questions that people ask and the ways in which they are answered through art. • Recognize the individual elements and influences of clothing of each historical period. Be able to observe and understand works of world art in different periods of history. • To become familiar with the relevant terminology and to acquire tools for the description and analysis of works of art. <p>To develop critical thinking in the way of approaching the works through the "reading" of their morphological characteristics and the inference of information about the time that created them.</p>
General Skills

- Search, analysis and synthesis of sources
- Critical attitude towards issues related to Art & Clothing
- Individual & group work
- Promoting free, creative thinking.

MODULE CONTENT

Through a combination of theoretical inquiry and practical application of the elements of the course modules, students will be able to identify the historical, social, aesthetic and multi-dimensional cultural context of the historic periods that defines and marks the new trends of Fashion until the emergence of Haute Couture. During the module, the main elements of the models in male and female appearance that define the modern concept of the multidimensional social phenomenon of Fashion are studied. The social conditions, the aesthetic values as well as the psychological foundations of Fashion are examined through the historical approach of the periods that contributed to the evolution of clothing from the Renaissance (15th-16th centuries) until the emergence of High Fashion in the late 19th century. At the same time, the artistic movements that shaped aesthetics during the 17th and 18th centuries (Baroque, Rococo) and the 19th century (Neoclassicism, Romanticism, Realism) are studied.

4. TEACHING AND LEARNING METHODS - EVALUATION

TEACHING METHODOLOGY	<p>The lectures of the subjects of the course will be presented with the use of supervisory means and the projection of digital lessons through the projector of the classroom.</p> <p>Also, during the courses, the internet will be utilized, especially during the execution of the laboratory exercises, as the students will be presented with the way of searching bibliography and using digital media.</p> <p>Field studies in cultural places related to the content of the course.</p>														
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	<p>Powerpoint presentations.</p> <p>Learning process support through the course website.</p> <p>Use of the internet and virtual applications to support laboratory exercises.</p> <p>Communication with students via e-mail, the course website and social media</p>														
TEACHING PLAN	<table border="0"> <thead> <tr> <th style="text-align: left;"><i>Activity</i></th> <th style="text-align: right;"><i>Semester Workload</i></th> </tr> </thead> <tbody> <tr> <td>Lectures</td> <td style="text-align: right;">52</td> </tr> <tr> <td>Writing reports and project</td> <td style="text-align: right;">13</td> </tr> <tr> <td>Self-oriented research</td> <td style="text-align: right;">85</td> </tr> <tr> <td colspan="2" style="text-align: center;"><i>Σύνολο Μαθήματος</i></td> </tr> <tr> <td colspan="2" style="text-align: center;"><i>(25 ώρες φόρτου ανά ΔΜ)</i></td> </tr> <tr> <td></td> <td style="text-align: right;">150</td> </tr> </tbody> </table>	<i>Activity</i>	<i>Semester Workload</i>	Lectures	52	Writing reports and project	13	Self-oriented research	85	<i>Σύνολο Μαθήματος</i>		<i>(25 ώρες φόρτου ανά ΔΜ)</i>			150
<i>Activity</i>	<i>Semester Workload</i>														
Lectures	52														
Writing reports and project	13														
Self-oriented research	85														
<i>Σύνολο Μαθήματος</i>															
<i>(25 ώρες φόρτου ανά ΔΜ)</i>															
	150														

<p>STUDENT EVALUATION</p> <p><i>Assessment Language, Assessment Methods, Formative or Conclusive, Multiple Choice Test, Short Answer Questions, Essay Development Questions, Problem Solving, Written Assignment, Report, Oral Exam, Public Presentation, Artistic Project, Other</i></p>	<p>The final grade of the course is shaped by the performance of the students in the theoretical part. The evaluation of the course is formed by a written final exam.</p>

5. RECOMMENDED BIBLIOGRAPHY

<p><i>Συγγράμματα μέσω του συστήματος EYAOΞΟΣ</i></p> <p>Gombrich, E. H. (1998). <i>Το χρονικό της τέχνης</i>. Αθήνα: ΜΙΕΤ.</p> <p>Teacher notes are also available through the course website.</p>

SCIENCE OF FIBERS AND FIBER CONSTRUCTIONS

(1) GENERAL

SCHOOL	DESING SCIENCES		
ACADEMIC UNIT	CREATIVE DESING AND CLOTHING		
LEVEL OF STUDIES	UNDERGRADUATE		
COURSE CODE	204	SEMESTER	2 nd
COURSE TITLE	SCIENCE OF FIBERS AND FIBER CONSTRUCTIONS		

INDEPENDENT TEACHING ACTIVITIES	WEEKLY TEACHING HOURS	CREDITS
Lectures	3	4
Laboratory exercises	2	2
COURSE TYPE	Specialized general knowledge	
PREREQUISITE COURSES:	No	
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek	
IS THE COURSE OFFERED TO ERASMUS STUDENTS	Yes in English	
COURSE WEBSITE (URL)	e-learning platform (cdc.ihu.gr)	

(2) LEARNING OUTCOMES

Learning outcomes

The course learning outcomes, specific knowledge, skills and competences of an appropriate level, which the students will acquire with the successful completion of the course are described.

After successfully attending the course students will have:

- Knowledge about the nature, properties, production and use of textile fibers in finished textiles
- Knowledge about the methods of forming the fibers in particular structures such as yarns, types and properties of them.
- Knowledge of their quality and how this responds technically to the requirements of the end products and the consumer.

After successfully attending the course, students should:

- Have the necessary knowledge of the nature and importance of textile fibers and yarns for the clothing sector
- Be able to identify fibers, know their trade names and be able to choose the appropriate materials (as a raw material) for the manufacture of clothing with the desired final characteristics.

General Competences

Taking into consideration the general competences that the degree-holder must acquire (as these appear in the Diploma Supplement and appear below), at which of the following does the course aim?

General competences that the degree-holder will acquire:

- Search for, analysis and synthesis of data and information, with the use of the necessary technology.
- Respect for the natural environment.
- Production of free, creative and inductive thinking.
- Working independently.
- Team work.

(3) SYLLABUS

Theoretical part:

Historical evolution. Classification, general characteristics of polymers and formation of natural and artificial fibers. General characteristics and properties of textile fibers (technical significance of length, fiber fineness, morphology, cross-section and method of measurement). Importance of maturity of cotton fibers, effect of temperature, humidity and light on the mechanical and physical properties of fibers, fiber resistance - recovery - lag - heat - absorption - absorption rates - diffusion - moisture retention etc.) of the main fibers used in the Clothing sector. The most important brands of fiber manufacturers, applications - uses - blends, innovations and innovative products. Identification of Fiber. Techniques and terminology applied to the textile industry. General principles of spinning systems. Study of the methods of producing yarns, mechanical equipment and factors affecting the quality of yarns. Sorting threads. Effect of twists on yarn and fabric properties. Monocular, polyclones, fantaise and texture yarns. Measurement and control of humidity. Check fiber and thread properties. Mechanical properties, uniformity test, yarn scarf coefficient of rubbing.

Laboratory part:

Introduction. First contact with textiles (fibers and yarns) and their macroscopic observation (recording of basic physical characteristics). Practice in the identification of textile fibers by microscopy (microscopic examination and observation of the morphology and cross-section of the fibers). Fiber moisture measurement (absorption rate, moisture content of various fibers, etc.).

Practice on textile identification by other methods such as:

- Special Shirlastein dyes
- Burning
- organic solvents
- specific gravity measurement, etc.

Practice in the calculation of finenesses of fibers and threads (monocular and polyclonal), measurement of yarn twists and calculation of torsional coefficient, measurement of tensile strength of a yarn in stress (stress-strain diagram)

(4) TEACHING and LEARNING METHODS - EVALUATION

DELIVERY	Face-to-face. In the classroom or in the Textile Lab.
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY	Use of ICT in teaching, laboratory education, communication with students

TEACHING METHODS

The manner and methods of teaching are described in detail.

Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, placements, clinical practice, art workshop, interactive teaching, educational visits, project, essay writing, artistic creativity, etc.

The student's study hours for each learning activity are given as well as the hours of non-directed study according to the principles of the ECTS

<i>Activity</i>	<i>Semester workload</i>
Lectures,	50
Laboratory practice	30
Essay writing	40
Self-study	30
Course total	150

<p>STUDENT PERFORMANCE EVALUATION</p> <p><i>Description of the evaluation procedure</i></p> <p><i>Language of evaluation, methods of evaluation, summative or conclusive, multiple choice questionnaires, short-answer questions, open-ended questions, problem solving, written work, essay/report, oral examination, public presentation, laboratory work, clinical examination of patient, art interpretation, other</i></p> <p><i>Specifically-defined evaluation criteria are given, and if and where they are accessible to students.</i></p>	<p>Language of the evaluation methods: Greek</p> <p>In theory</p> <p>Written final exam (100%) comprising:</p> <ul style="list-style-type: none"> - Short-answer questions - Combination judgment questions -Comparative evaluation of theory data -Problem solving -Open-ended questions <p>In the laboratory</p> <p>Written examination (60%) comprising:</p> <ul style="list-style-type: none"> - Short answer questions - Combination judgment questions - Problem solving <p>40% complete forms in the lab</p>
--	---

(5) ATTACHED BIBLIOGRAPHY

1. A.F.Richards, A.E.Cropper, M.Miragraf, D.A.Holmes,
INTRODUCTION IN TEXTILE FABRICS, Volume 1, TEXTILE FIBERS,
Publications - Editing in Greek S. VASSILIADIS, TH. PEPPAS, 1st edition, 2003.
2. T.ROWE, K.P.BUSBY, J.R.HALFRENNEY, D.A.HOLMES,
INTRODUCTION TO TEXTILES, VOLUME 2, YARNS TECHNOLOGY,
Publications - Editing in Greek TH. PEPPAS, S. VASILEIADIS, 1st edition, 2003.
3. S.G.VASILEIADIS, NEW TECHNOLOGIES OF TRAINING, S.G.VASILEIADIS Publications, 1st edition 1997.
4. A. PRIMENTAS, CH.MOUTSATSOS, APPLICATIONS OF CUTTING IN COTTON SYSTEM, N.APRIMENTAS Publications, 1st edition 2002.
- 5.SARAJ.KADOLPH, TEXTILES, FIBERS AND YARNS TECHNOLOGY,
Edited by E. DIMITRAKOPOULOS, ION Publications, 2014.
6. E.DIMITRAKOPOULOS, G. SAVVIDIS, Laboratory Notes FIBER AND YARNS TECHNOLOGY, DEPARTMENT, 2015.
7. G. KARAGIANNIDIS, E. SIDERIDOU, CHEMISTRY OF POLYMERS, ZITI, 2006.
8. J. McIntyre, THE CHEMISTRY OF FIBERS, Edward Arnold, London, 1971.
9. ULLMANN'S ENCYCLOPEDIA OF INDUSTRIAL CHEMISTRY, 4th edition, VCH VERLAGSGESELLSCHAFT, Weinheim, 1992.
10. E.D. WILLIAMS, IN SYNTHETIC FIBER MATERIALS, Longman, Harlow, 1994.

Technical Drawing

1. GENERAL

SCHOOL	DESIGN SCIENCES		
DEPARTMENT	CREATIVE DESIGN AND CLOTHING		
LEVEL OF STUDIES	Undergraduate		
COURSE CODE	205	SEMESTER	2 st
COURSE TITLE	Technical Drawing		

TEACHING METHODS AND ACTIVITIES		LEARNING HOURS PER WEEK	CREDIT UNITS
Lectures		2	5
Lab Exercises		2	
Total		4	
MODULE TYPE	Μάθημα Γενικής Υποδομής, Υποχρεωτικό (Υποβάθρου)		
PREREQUISITE MODULES :			
LANGUAGE OF TEACHING / EXAMS LANGUAGE	Greek		
COURSE OFFERED TO ERASMUS STUDENTS	yes (in english)		
MODULE WEB PAGE (URL)			

2. LEARNING OUTCOMES

Learning Aims
<p>Technical drawing is a visual way of communication in the fashion industry, that includes all the important information (flat designs, measurements, notes, specification sheets) for a fashion design to become a finished garment. Based in 2D and 3D visual design, technical drawing plays an important role in quality and competitiveness of the final products.</p> <p>This course is orientated to evolve students' technical design skills, analyze and communicate efficient garments' specifications through the fashion departments.</p> <p>During the studio work, students get familiar with the use of CAD software (CorelDraw/Adobe Illustrator) on technical drawing.</p> <p>Learning outcomes:</p> <ul style="list-style-type: none"> · Students learn the graphic design language of communication for creation in the fashion industry. · Become aware of the importance of CAD software in the fashion industry, as a self-evolving and life process. · Develop their fashion design skills with the use of CAD software. · Demonstrate an ability of analyzing and critical thinking in terms of the style, construction, fabrics and other components suitable for garments realization.

- Evolve their design skills on technical drawing, analyzing garments' details & specifications.

General Skills

- Research, analysis and configuration of facts and information with the use of the essential technology.
- Group work.
- Project design and management.
- Encouragement of open minded, creative and inductive thinking.

3. COURSE CONTENTS

Introduction in technical drawing design

- Design studio and tools
- Vectors
- Straight & curved line drawing
- Color application
- Color communication
- Fabrics and Components – Selection, processing, representation, finishing

Technical drawing digital design

- Creation of new file
- Draw basic shapes
- Edit basic shapes: Rotation & Merging
- Use of fashion body template
- Design technical drawing of shirt and blazer jacket
- Design technical drawing of skirt, trousers and denim jeans
- Design technical drawing of sportswear garments
- Design technical drawing of outerwear
- Creation of fashion brushes for buttons, stitches, endings, zipper
- Creation of technical drawing presentation board

SPECS – Specification Sheets

- Technical drawing and presentation - Storyboards
- Technical drawing and garments analysis for production – Spec Sheets
- Garments construction details
- Garments variations with technical drawing

4. TEACHING METHODS - EVALUATION

TEACHING METHODS	Lectures in class include discussion and students' active participation. During class powerpoint presentations are taking place. CAD Studio work and use of CAD software. .
USE OF TECHNOLOGY, DIGITAL SOFTWARE, DATA AND COMMUNICATION	Use of specialized design software Digital design exercises for self-evaluation Communication with students through emails, e-learning website and RSS feeds.

Bibliography handed to students by Eudoxos

Wood, B., (2019) Adobe Illustrator CC Βήμα προς Βήμα. Χ. ΓΚΙΟΥΡΔΑ & ΣΙΑ ΕΕ
Eudoxos code, 86055137

Wirschun, B., (2009). Ηλεκτρονική Σχεδίαση Ενδυμάτων με CorelDraw.
Eudoxos code [41957120]

Additional Bibliography

Adu, Gyamfi, S. and Osei, Agyedu, G. (2008) Essentials of Information
Technology, Willas Press Ltd Kumasi, Ghana.

Burke, S. Fashion (2006) Computering - Design and Techniques and CAD.

Center, M. and Vereker, F. (2008) Fashion Designer's Handbook for adobe
Illustrator.

Berns, R. S. (2000), Billmeyer

PRINCIPLES OF GARMENT MAKING

1. GENERAL

SCHOOL	DESIGN SCIENCES		
ΤΜΗΜΑ	CREATIVE DESIGN & CLOTHING		
LEVEL OF EDUCATION	UNDERGRADUATE		
LESSON CODE	206	SEMESTER OF STUDIES	2 st
	Principles of Garment Making		
INDEPENDENT TEACHING ACTIVITIES		WEEKLY TEACHING HOURS	CREDIT UNITS
	LECTURES	1	5
	LABORATORY EXERCISES	3	
	<i>ΣΥΝΟΛΟ</i>	4	
ΤΥΠΟΣ ΜΑΘΗΜΑΤΟΣ	Μάθημα Υποχρεωτικό, Ανάπτυξης Δεξιοτήτων, Ειδικής Υποδομής		
ΠΡΟΑΠΑΙΤΟΥΜΕΝΑ ΜΑΘΗΜΑΤΑ:			
ΓΛΩΣΣΑ ΔΙΔΑΣΚΑΛΙΑΣ και ΕΞΕΤΑΣΕΩΝ:	GREEK		
ΤΟ ΜΑΘΗΜΑ ΠΡΟΣΦΕΡΕΤΑΙ ΣΕ ΦΟΙΤΗΤΕΣ ERASMUS			
ΗΛΕΚΤΡΟΝΙΚΗ ΣΕΛΙΔΑ ΜΑΘΗΜΑΤΟΣ (URL)			

2. LEARNING OUTCOMES

LEARNING OUTCOMES

- The acquisition of knowledge of the procedures and work performed in the environment of a garment production unit, from the raw material to the manufacture of the final product.
- Upon successful completion of the course students should:
 - Through the monitoring of the manufacturing processes of the garments, to understand the parameters and the stages of perfection of the garment from the design to its production.
 - by exploring the relationship that arises between somatometric data and fabric, to be able to understand the philosophy of manufacture of clothing.
 - get in touch with the various types, function and technical characteristics of the equipment & the various systems used for the manufacture of garments,
 - to study and get acquainted with the various alternative methods of assembling clothes
 - use somatometric tools
 - have developed skills in handling design tools for making garment patterns
 - apply the methodologies of designing basic clothing standards of individualized and standard measures.
 - use pattern conversion techniques on a variety of lines

General Abilities

- Autonomic work
- Skills Development
- Search, analysis and synthesis of data and information, using the necessary technologies
- Adaptation to new situations
- Exercise criticism and self-criticism

3. COURSE CONTENT

Theoretical part: The structure of Garment manufacturing companies. The Premises and the Organization of the production department. General concepts of Sewing Technology. Historical Review and Evolution of the Technology of manufacturing clothes and sewing machines. Technical characteristics of tailoring equipment. Basic principles of pattern design and principles of garment assembly. From the template to the first sample, procedures and steps. Introduction to the philosophy of creating a corsage & skirt.

Workshop part: Application of the knowledge acquired in the theoretical part, through laboratory exercises and projects, with emphasis on the design of a basic prototype. Patterns and personalized body measures-variations, modifications of clothing pattern bases. Familiarity with the tools and equipment for recording somatometric dimensions. Familiarity with the tools and equipment for creating garment patterns and assembling (sewing) textile surfaces. Familiarity with seam quality assessment. (woven / knitted)

4. TEACHING & LEARNING METHODS - EVALUATION

	<p>Theoretical (face to face) teaching with presentation of methodology. Laboratory Exercises. Presentation and then execution of individual work. Monitoring and on-site correction of works.</p>	
USE OF INFORMATION & COMMUNICATION TECHNOLOGIES	Communication with students via e-mail.	
TEACHING ORGANIZATION	Activity	Semester Workload
	Lectures	13
	Visits	8
	Laboratory Exercises	39
	Independent Study	65
	Course Total	
	25 hours of load per Teaching Units)	125
STUDENT EVALUATION <i>Assessment Language, Assessment Methods, Formative or Conclusive, Multiple Choice Test, Short Answer Questions, Essay Development Questions, Problem Solving, Written Assignment, Report, Oral Exam, Public Presentation, Artistic Project, Other</i>	<p>The final grade of the course is formed by the performance of the students in both the theoretical and the laboratory part, provided that the student has been evaluated with a promotional grade in each part of the course.</p> <p>The evaluation of the course in terms of the theoretical part is formed by a written final examination of the theoretical part which includes:</p> <ul style="list-style-type: none"> - Short answer questions <p>2. The examination of the laboratory exercises includes the evaluation of the laboratory skills</p>	

	acquired through a final examination of a related topic or laboratory work
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5. RECOMMENDED BIBLIOGRAPHY

Books through the EYDOXOS system
Book [59363971]: Εφαρμοσμένη Ραπτική, MarckwortMarianne, MarckwortUlf-Heiner
Additional suggested bibliography
For updates

3^o SEMESTER

Fashion Forecast & Design

1. GENERAL

SCHOOL	DESIGN SCIENCES		
DEPARTMENT	CREATIVE DESIGN & CLOTHING		
LEVEL OF STUDIES	<i>Undergraduate</i>		
MODULE CODE	301	ΕΞΑΜΗΝΟ ΣΠΟΥΔΩΝ	3 ^o
MODULE TITLE	Fashion Forecast & Design		
TEACHING METHODS AND ACTIVITIES	LEARNING HOURS PER WEEK		CREDIT UNITS
Lectures ς	2		5
Εργαστηριακές Ασκήσεις	3		
TOTAL	5		
MODULE TYPE	Μάθημα Υποχρεωτικό, Επιστημονικού Πεδίου, Ειδικής Υποδομής		
PREREQUISITE MODULES	Fashion Product Design, Technical Drawing		

LANGUAGE OF TEACHING / EXAMS LANGUAGE	Greek
COURSE OFFERED TO ERASMUS STUDENTS	YES (in English)
MODULE WEB PAGE (URL)	https://elearning.cm.ihu.gr/course/view.php?id=512

2. LEARNING OUTCOMES

LEARNING OUTCOMES
<ul style="list-style-type: none"> • Through research and study of the trends for the Fashion market, the course aims to acquire knowledge related to modern Clothing design approaches. In addition, it aims to develop design skills within a framework defined by rules of commercialism and Fashion, as well as the development of research skills in Fashion Trends (shopping trends) • After attending the course students should achieve: <ul style="list-style-type: none"> • to search and analyze modern fashion trends. • to understand how forecasting works and interpret the "messages" of the Market. • to recognize and name the individual characteristics and influences of each trend. • to design the new clothing requirements of the Market. • to accurately design an up to date clothing product. • to create updated design "environments" (moodboards). • to use Forecasting as a design tool. • to develop complete design proposals with a common style. • to manage Garment Design with a commercial orientation.
General Skills
<ul style="list-style-type: none"> • Search, analysis and synthesis of data and information, using the necessary technologies • Adaptation to new situations • Decision making • Autonomous work • Teamwork • Exercise criticism and self-criticism • Promoting free, creative and inductive thinking

3. MODULE CONTENT

Theory & studio: What is Fashion Prognosis and its impact in Fashion Design. Fashion Trends history and style bureaus. International Trade Fairs & their implication in the Design procedure. Research & trend sources. Methods of style updating within the design procedure. Trends management according to the style. Megatrends influence. Contains a studio project part. .

TEACHING AND LEARNING METHODS - EVALUATION

<p>TEACHING METHODOLOGY</p>	<p>Theoretical teaching and methodology presentation. Power point presentations are made during the course. Studio work. Presentation and then execution of individual work. Monitoring and on-site correction of works. Assignment of teamwork.</p>
<p>USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES</p>	<p>Connecting students through e-learning platform.</p>
<p>TEACHING PLAN</p>	<p style="text-align: center;"><i>Activity Semester Workload</i></p> <p style="text-align: center;">Lectures 26 studio 39 Group project 20 Personal study 40</p> <p style="text-align: center;"><i>Module Total</i></p> <p style="text-align: center;"><i>(25 h Semester Workload / CU) 125</i></p>
<p>STUDENT EVALUATION</p> <p><i>Assessment Language, Assessment Methods, Formative or Conclusive, Multiple Choice Test, Short Answer Questions, Essay Development Questions, Problem Solving, Written Assignment, Report, Oral Exam, Public Presentation, Artistic Project, Other</i></p>	<p>The final grade of the course is formed by the performance of the students in both the theoretical and the studio part, provided that the student has been evaluated with a promotional grade in each part of the course. The evaluation of the course in terms of the theoretical part is formed by:</p> <ol style="list-style-type: none"> 1. a written final examination of the theoretical part includes: Short Answer Questions public presentation of work (optional). 2. The examination of the laboratory exercises includes the evaluation of the laboratory skills acquired through a final examination of a related topic and evaluation of the whole laboratory exercises (book).

5. RECOMMENDED BIBLIOGRAPHY

Συγγράμματα μέσω του συστήματος ΕΥΔΟΞΟΣ

1. Roland Barthes, (2016). *Το μπλε είναι φέτος στη μόδα*. ΠΛΕΘΡΟΝ Ε.Ε.

Συναφή περιοδικά πρόγνωσης:

View, View on color, Textile Report, Bloom.

Συμπληρωματική προτεινόμενη βιβλιογραφία

1. EDELKOORT, L. (1999). *The Theories Behind Colour Forecasting*. Glasgow: The Briggait Centre. October, 19th, 1999. (Presentation)
2. GREEN, B. (1994). *An investigation into the decision making process used by colourists within clothing fashion prediction, with special reference to women's wear*. London: Royal College of Art.
3. HIPSEY, J. C. (1995). *To what extent does fashion forecasting influence the fashion industry?* Leicester: De Montfort University.
4. PERNA, R. (1987). *Fashion Forecasting*. USA: Fairchild Publications.
5. Vinken, & M. Hewson, *Fashion Zeitgeist : Trends and Cycles in the Fashion System* (pp. 99-108). Oxford, GBR: Berg.

Design & Technology of Clothing Prototypes I

1. GENERAL

SCHOOL	DESIGN SCIENCES		
DEPARTMENT	CREATIVE DESIGN AND CLOTHING		
LEVEL OF STUDIEW	UNDERGRADUATE		
MODULE CODE	302	N	30
MODULE TITLE	Design & Technology of Clothing Prototypes I		
TEACHING METHODS AND ACTIVITIES	LEARNING HOURS PER WEEK	CREDITS UNITS	
Lectures	2	5	
Applied exercises	3		
TOTAL	5		
MODULE TYPE	Μάθημα Υποχρεωτικό, Επιστημονικού Πεδίου, Ανάπτυξης Δεξιοτήτων, Ειδικής Υποδομής		
PREREQUISITE MODULES:			
LANGUAGE OF TEACHING/ EXAMS LANGUAGE :	GREEK		
COURSE OFFERED TO ERASMUS STUDENTS	YES (in engl;ish)		
MODULE WEB PAGE (URL)			

1. LEARNING OYTCOMES

Learning Aims

The course aims to provide the student, basic knowledge and skills of making and processing patterns for woven garments. The interest is focused on understanding the pattern design techniques of drafting and using basic blocks for creating new designs.

Upon successful completion of the course the student should be able to:

- apply the pattern design methodologies for drafting skirt, bodice, sleeve and dress blocks.
- create pattern designs from basic skirt blocks such as yokes, high and low waist, tulip, balloon ect.
- apply the pattern design methodologies for drafting skirts like circles, paneled ect.
- create pattern designs from basic bodice and dress blocks with different necklines, seams ect
- apply collar pattern design methodologies for drafting basic collar blocks and designs.
- use techniques such as dart manipulation, pleats, cowl, ruffles, gathers, asymmetries, cuts, bias cut, various lines such as A, flared etc.
- create pattern designs of skirts, dresses, blouses and shirts from flats
- compose techniques for constructing models of various designs.
- implement clothing prototypes
- adopt all the above techniques, applying them in complicated skirt, dress, blouse and shirt designs

General Skills

- Individual work
- Skills Development
- Search, analysis and synthesis of data and information, using the necessary technologies
- Adaptation to new situations
- Criticism and self-criticism

3. MODULE CONTENT

Lectures/Theory:

Block construction and manipulation for creating a wide range of garment styles, lines, seams and details in skirts, dresses and shirts. Creating decorative details-ruffles, folds, cowl, pleats gathering ect. Study the technical details of the garments (finishes, seams, accessories).

Lab/Practice:

Pattern cutting of simple and complex designs of skirts (e.g. high and low waist, yoke, circle, wrap, paneled, balloon, pleats, gather, bias cut), dresses (e.g. necklines, seams, non-symmetrical, pleats, gathers, ruffles, collars, sleeves) and shirts (e.g. collars, sleeves, yokes, plackets), applying methods and techniques in scale and real size. Pattern design and projects implementation.

4. TEACHING AND LEARNING METHODS - EVALUATION

TEACHING METHODOLOGY	<p>Lectures with presentation of methodology.</p> <p>laboratory Exercise with presentation and practice individually. Monitoring and on-site correction of progress. .</p>														
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	Communication with students via e-mail, module website and interaction within a closed social														
TEACHING PLAN	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><i>Activity</i></th> <th style="text-align: right;"><i>Semester Workload</i></th> </tr> </thead> <tbody> <tr> <td>Lectures</td> <td style="text-align: right;">13</td> </tr> <tr> <td>Studio Work</td> <td style="text-align: right;">39</td> </tr> <tr> <td>Atelie</td> <td style="text-align: right;">26</td> </tr> <tr> <td>Self-oriented research</td> <td style="text-align: right;">47</td> </tr> <tr> <td colspan="2" style="text-align: center;"> <i>Module Total</i> </td> </tr> <tr> <td colspan="2" style="text-align: center;"><i>(25 h Semester Workload / CU) 125</i></td> </tr> </tbody> </table>	<i>Activity</i>	<i>Semester Workload</i>	Lectures	13	Studio Work	39	Atelie	26	Self-oriented research	47	 <i>Module Total</i> 		<i>(25 h Semester Workload / CU) 125</i>	
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 <i>Module Total</i> 															
<i>(25 h Semester Workload / CU) 125</i>															
STUDENT EVALUATION	<p>The final grade of the course is formed by evaluating the students both in theory and in lab, provided that in each part of the course a passing grade have been secured.</p> <p>1. The evaluation of the theoretical part consists of a written examination which includes: - Short answer questions</p> <p>2. The evaluation of the laboratory consists of a final drafting a pattern design from a technical flat or projects</p>														
<i>Assessment Language, Assessment Methods, Formative or Conclusive, Multiple Choice Test, Short Answer Questions, Essay Development Questions, Problem Solving, Written Assignment, Report, Oral Exam, Public Presentation, Artistic Project, Other</i>															

5. RECOMMENDED BIBLIOGRAPHY

Συγγραμματα μέσω του συστήματος ΕΥΛΟΞΟΣ

Book [14729]: Metric Pattern Cutting for Women's Wear, Aldrich Winifred

History of Fashion

1 GENERAL

SCHOOL	DESIGN SCIENCES
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DEPARTMENT	Creative Design & Clothing			
LEVEL OF STUDIES	<i>Undergraduate</i>			
MODULE CODE	303	SEMESTER	3o	
MODULE TITLE	History of Fashion			
TEACHING METHODS AND ACTIVITIES	LEARNING HOURS PER WEEK	CREDIT UNITS		
Lectures	4			
	4	5		
MODULE TYPE	Μάθημα Υποχρεωτικό, Επιστημονικού Πεδίου, Ειδικής Υποδομής			
PREREQUISITE MODULES				
LANGUAGE OF TEACHING / EXAMS LANGUAGE	Greek			
COURSE OFFERED TO ERASMUS STUDENTS	Yes (English)			
MODULE WEB PAGE (URL)	https://elearning.cm.ihu.gr/course/view.php?id=513			

2 LEARNING OUTCOMES

Learning Aims

<p>The ultimate goal of the course is to acquire the necessary knowledge about the historical trends that pervade the wide range of the modern phenomenon of Fashion. Through the combination of lectures and personal research in fields related to the thematic units of the course, students will be able to</p> <ul style="list-style-type: none"> ● recognize the historical, social, aesthetic and cultural context of the times that defines and marks the new currents of Fashion from the appearance of Haute Couture to the establishment of the prêt-a-porter. ● identify, compare and justify the costume characteristics of each decade. ● connect and analyze the reasons for the prevalence of a Fashion. ● recognize the designers of each time period and their work. 	
General Skills	
<ul style="list-style-type: none"> ● research and sources' analysis ● presenting and highlighting individual issues. ● teamwork. 	

3 MODULE CONTENT

Theory. The social context, the aesthetics & the psychological impact on Fashion through a long period between the beginning of Haute Couture at the end of 19th century to the 60s prêt-a-porter culture. The Belle Epoque era, mid war season, the 50s under the New Look influence, new generation Designers of the 60s & the 70s.

4 TEACHING AND LEARNING METHODS - EVALUATION

TEACHING METHODOLOGY	Theoretical teaching with powerpoint presentations. research in bibliography sources, visits in fashion exhibitions.
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	Communication with students through the e-learning platform

TEACHING PLAN	<table border="1"> <thead> <tr> <th data-bbox="384 461 746 577"><i>Activity</i></th> <th data-bbox="746 461 1107 577"><i>Semester Workload</i></th> </tr> </thead> <tbody> <tr> <td data-bbox="384 577 746 663">Lectures</td> <td data-bbox="746 577 1107 663">52</td> </tr> <tr> <td data-bbox="384 663 746 748"></td> <td data-bbox="746 663 1107 748"></td> </tr> <tr> <td data-bbox="384 748 746 833"></td> <td data-bbox="746 748 1107 833"></td> </tr> <tr> <td data-bbox="384 833 746 918">Dissertation</td> <td data-bbox="746 833 1107 918">13</td> </tr> <tr> <td data-bbox="384 918 746 1003">Personal study</td> <td data-bbox="746 918 1107 1003">60</td> </tr> <tr> <td data-bbox="384 1003 746 1088"></td> <td data-bbox="746 1003 1107 1088"></td> </tr> <tr> <td data-bbox="384 1088 746 1265"> Module Total <i>(25 h Semester Workload / CU)</i> </td> <td data-bbox="746 1088 1107 1265">125</td> </tr> </tbody> </table>	<i>Activity</i>	<i>Semester Workload</i>	Lectures	52					Dissertation	13	Personal study	60			Module Total <i>(25 h Semester Workload / CU)</i>	125
<i>Activity</i>	<i>Semester Workload</i>																
Lectures	52																
Dissertation	13																
Personal study	60																
Module Total <i>(25 h Semester Workload / CU)</i>	125																
STUDENT EVALUATION	<p>The final grade of the course comes from the students' performance in the theoretical part. The evaluation of the course in terms of the theoretical part, is formed by optional work & written final exam.</p> <p>The written final examination of the theoretical part includes:</p> <ul style="list-style-type: none"> - development questions and / or multiple choice questions. 																

5 RECOMMENDED BIBLIOGRAPHY

1. Lehnert G. (1999), *Geschichte der Mode des 20 Jahrhunderts*, Cologne: Konemann
2. MENDES, V. & de la HAYE, A. (1999). *Twentieth Century Fashion*. London: Thames & Hudson.
3. AUDOT, F. (1999). *A Century of Fashion*. London: Thames & Hudson Ltd.
4. Payne Blance, Winakor Geitel, Farrell - Beck Jane.(1997). *The History of Costume*. London: Addison Wesley Longman Inc.

FABRIC SCIENCE

(1) GENERAL

SCHOOL	DESING SCIENCES		
ACADEMIC UNIT	CREATIVE DESING AND CLOTHING		
LEVEL OF STUDIES	UNDERGRADUATE		
COURSE CODE	304	SEMESTER	3 nd
COURSE TITLE	FABRIC SCIENCE		
INDEPENDENT TEACHING ACTIVITIES	WEEKLY TEACHING HOURS	CREDITS	
Lectures	3	4	

	Laboratory exercises	2	2
COURSE TYPE	Specialized general knowledge		
PREREQUISITE COURSES:	No		
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek		
IS THE COURSE OFFERED TO ERASMUS STUDENTS	Yes in English		
COURSE WEBSITE (URL)	e-learning platform (cdc.ihu.gr)		

(2) LEARNING OUTCOMES

Learning outcomes

The course learning outcomes, specific knowledge, skills and competences of an appropriate level, which the students will acquire with the successful completion of the course are described.

After successfully attending the course students will have:

- Knowledge about the structure of the fabrics and how they are produced,
- The main categories of knitted, woven and non-woven textiles.
- Properties and use of each category of fabrics as well as their trade names

After successfully attending the course, students should:

- Be familiar with the technology, types and properties of knitted fabrics
- Know the technology, types and properties of woven fabrics
- Know the technology, types and properties of non-woven fabrics
- Describe the design and color schemes applied to different types of fabrics

General Competences

Taking into consideration the general competences that the degree-holder must acquire (as these appear in the Diploma Supplement and appear below), at which of the following does the course aim?

General competences that the degree-holder will acquire:

- Search for, analysis and synthesis of data and information, with the use of the necessary technology.
- Respect for the natural environment.
- Production of free, creative and inductive thinking.
- Working independently.
- Team work.

(3) SYLLABUS

Theoretical part:

Knitted fabric technology. Evolution of knitting. Mechanisms of plotting and structure characteristics of knitted fabrics. Weft / warp knitting and lace. Fabrics of single/ double sock, pile and sweatshirt, zakar fabrics. Fully-fashioned machines, intarsia. Properties and use of knitwear. Recent developments in knitting.

Textile woven fabric technology. Evolution of weaving. Processes and mechanical equipment. Principles of Dobby - Jacquard systems. Principles of shuttle systems (rapier, projectile, water jet, air jet). Textile designs, color and weave effects, advanced textiles (3D fabrics, three-dimensional structures, multi-layer fabrics). Properties and uses.

Non-woven fabric technology. Production systems, uses and comparison with other fabric production systems. Properties and uses. Nomenclature of knitted and woven fabrics.

Laboratory part:

Experimental investigation of structural features of knitted / woven / non-woven fabrics. Analysis of structures and their presence. Ranking and creating a fabric file. Trade names.

(4) TEACHING and LEARNING METHODS - EVALUATION

DELIVERY	Face-to-face. In the classroom or in the Textile Lab.									
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY	Use of ICT in teaching, laboratory education, communication with students									
TEACHING METHODS	<table border="1" style="width: 100%;"> <thead> <tr> <th style="text-align: center;"><i>Activity</i></th> <th style="text-align: center;"><i>Semester workload</i></th> </tr> </thead> <tbody> <tr> <td>Lectures,</td> <td style="text-align: center;">60</td> </tr> <tr> <td>Laboratory practice</td> <td style="text-align: center;">40</td> </tr> <tr> <td>Essay writing</td> <td style="text-align: center;">30</td> </tr> </tbody> </table>		<i>Activity</i>	<i>Semester workload</i>	Lectures,	60	Laboratory practice	40	Essay writing	30
<i>Activity</i>	<i>Semester workload</i>									
Lectures,	60									
Laboratory practice	40									
Essay writing	30									
<p><i>The manner and methods of teaching are described in detail.</i></p> <p><i>Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, placements, clinical practice, art workshop, interactive teaching, educational visits, project, essay writing, artistic creativity, etc.</i></p> <p><i>The student's study hours for each learning activity are given as well as the hours of non-</i></p>										

directed study according to the principles of the ECTS

Self-study

20

Course total

150

STUDENT PERFORMANCE EVALUATION

Description of the evaluation procedure

Language of evaluation, methods of evaluation, summative or conclusive, multiple choice questionnaires, short-answer questions, open-ended questions, problem solving, written work, essay/report, oral examination, public presentation, laboratory work, clinical examination of patient, art interpretation, other

Specifically-defined evaluation criteria are given, and if and where they are accessible to students.

Language of the evaluation methods: Greek

In theory

Written final exam (100%) comprising:

- Short-answer questions

- Combination judgment questions

-Comparative evaluation of theory data

-Problem solving

-Open-ended questions

In the laboratory

Written examination (60%) comprising:

- Short answer questions

- Combination judgment questions

- Problem solving

40% complete forms in the lab

(5) ATTACHED BIBLIOGRAPHY

1. A.F.Richards, A.E.Cropper, M.Miragraf, D.A.Holmes,
INTRODUCTION IN TEXTILE FABRICS, Volume 1, TEXTILE FIBERS,
Publications - Editing in Greek S. VASSILIADIS, TH. PEPPAS, 1st edition, 2003.
2. G. SAVVIDIS, Theory Notes FABRICS TECHNOLOGY, SECTION STE, 2017.
3. G.SAVVIDIS, Laboratory Notes FABRICS TECHNOLOGY, STATE SECTION, 2017.
4. SARAJ.KADOLPH, TEXTILE FABRICS, FABRIC TECHNOLOGY, DYEING AND FINISHING, Edited by E. DIMITRAKOPOULOS, ION Publications, 2016.
5. H. EBERLE, H. HERMELING, M. HONBERGER, D. MENZTR, W. RING, FABRICATION II - FABRICS, ETTE Publications, 1997.
6. GRAVAS, ANALYSIS OF THE STRUCTURE OF KNITTED FABRICS, PIRAEUS TEI, DEPARTMENT OF TEXTILES, 2005.
7. D. Spenser, Knitting Technology, 1980.
8. PRIMENTAS, TECHNICAL DOCUMENT DRAFT, TEI OF PIREA, Department of Computer Science, 1998
9. MAGIC EXPERIENCE, THE ART OF FABRIC I AND II, ION Publications, 2004.
10. E. ANGELOPOULOU - VOLE, ARGALIOS, Publications DOMOS, 1986.
11. I. BROSSARD, TECHNOLOGY DES TEXTILES, DUNOD Publishing, 1977

DIGITAL TEXTILE DESIGN

1. ΓΕΝΙΚΑ

SCHOOL	DESIGN SCIENCES		
DEPARTMENT	CREATIVE DESIGN AND CLOTHING		
LEVEL OF STUDIES	Undergraduate		
COURSE CODE	305	SEMESTER	3 rd
COURSE TITLE	DIGITAL TEXTILE DESIGN		
TEACHING METHODS AND ACTIVITIES	LEARNING HOURS PER WEEK	CREDIT UNITS	
Lectures	2	5	
Lab Exercises	2		

	ΣΥΝΟΛΟ	4
ΤΥΠΟΣ ΜΑΘΗΜΑΤΟΣ	Μάθημα Ειδικής Υποδομής, Υποχρεωτικό (Υποβάθρου)	
ΠΡΟΑΠΑΙΤΟΥΜΕΝΑ ΜΑΘΗΜΑΤΑ:		
ΓΛΩΣΣΑ ΔΙΔΑΣΚΑΛΙΑΣ και ΕΞΕΤΑΣΕΩΝ:	Ελληνική	
COURSE OFFERED FOR ERASMUS STUDENTS	YES (in ENGLISH)	
ΗΛΕΚΤΡΟΝΙΚΗ ΣΕΛΙΔΑ ΜΑΘΗΜΑΤΟΣ (URL)		

1. LEARNING OUTCOMES

Learning Outcomes
<p>Over the past 15 years, digital printing technology has faced the primary needs of its multiple markets. Machines are now available at extremely fast print speeds to match the old analog rotary machines. Digital printing is not analog. Color stability is an industry standard, and printer, ink, and fabric suppliers try to overcome any limitations. Although digital color management in the clothing industry has been in place for many years, only in recent years have commercial systems provided comprehensive solutions linking all parties involved in the supply chain, such as designers, buyers and technologists. The course intends to introduce students into the basic principles of print design and to provide the appropriate skills to undertake the transfer of practical printing techniques to fabric by digital means. In the laboratory part of the course, students are familiar with the use of appropriate software and equipment to develop printing ideas and techniques and apply them to the base fabric as placement and reprinting printouts to create original creative work projects.</p> <p>After attending the course, students should be able to:</p> <ul style="list-style-type: none"> • Describe, interpret and use the technology of digital textile printing in the development of design techniques for printing processes. • Examine different printing methods and their application to their designs • Analyze and apply knowledge about printing techniques, including raw material options to solve design and production problems • Develop and produce print designs reflecting sampling, quality standards and technical specifications
General Skills
<ul style="list-style-type: none"> • Implementation and creative adoption of a body of theoretical and technical knowledge and skills in design and fashion technology. • Recognition and implementation of relevant technologies in the fashion and manufacturing industries • Research and creative work in solving fabric design-related problems • Identification, analysis and thinking of fashion technology at local and/or global level

1. COURSE CONTENT

- **Traditional and technological techniques in modern fabric design**

Stationary and embossed printing

Stencil technique

Monochrome, Silkscreen Printing, Image Transfer, Marbling Methods

Flattened and colored printing, stained resistant

Παραδοσιακές και τεχνολογικές τεχνικές στον σύγχρονο σχεδιασμό υφάσματος

- **Development and progress of digital textile design**

New directions in fabric design

The origin of digital printing technologies

Thermal Transfer - Sublimation

Spray Printing and Fabric

Printing large fabric surfaces and digital format

Significant industry reports on the digital printing of fabrics

Industrial site visits

Presentation of sophisticated fabric design software

- **Digital Colour Management**

Color communication

Play color behavior on special equipment

ICC color management advantages and disadvantages

Color Separation

- **Digital Printing and mass- customisation**

Limitations, Time, Technology and Connectivity

Product Lifecycles

- **Textile design in the digital era**

New Local Language

Digital surface design and photo

Graphic and Graphic Style Case Studies

Pattern and pattern based on data

Pattern Repeat Systems

Size and type of recurrence

Drawing Styles

- **Design Development in Illustrator & Photoshop**

Complex color blends

Create a color palette

Expand flower patterns

Miscellaneous Effects & Filters

Photo editing

Texture Effects

- **Future Trends Μελλοντικές τάσεις**

Rebuilding a fabric plan and innovation using neural networks

New design idea: from 3D to 2D fabric design for clothing applications

Case Studies (Basso & Brooke, Philippa Brock, James Bullen, Malcolm Cocks, Philip Delamore, Eley Kishimoto, Tomoko Hayashi, Casy Reas, Mary Katrantzou κα)

2. TEACHING AND LEARNING METHODS - EVALUATION

TEACHING METHODOLOGY	Lecturing with discussion and students' active participation. During class, share of powerpoint presentation. Use printing equipment for direct printing on clothing and specialized software. Laboratory measurements										
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	Self-evaluation e-exercises (Quizes) Communication via e-mail, course moodle and RSS feeds.										
TEACHING PLAN	<table border="1"> <thead> <tr> <th><i>Activity</i></th> <th><i>Semester Workload</i></th> </tr> </thead> <tbody> <tr> <td>Lectures</td> <td>26</td> </tr> <tr> <td>Writing lab reports and projects</td> <td>14</td> </tr> <tr> <td>Self study</td> <td>85</td> </tr> <tr> <td>Total (25 ώρες φόρτου ανά ΔΜ)</td> <td>125</td> </tr> </tbody> </table>	<i>Activity</i>	<i>Semester Workload</i>	Lectures	26	Writing lab reports and projects	14	Self study	85	Total (25 ώρες φόρτου ανά ΔΜ)	125
<i>Activity</i>	<i>Semester Workload</i>										
Lectures	26										
Writing lab reports and projects	14										
Self study	85										
Total (25 ώρες φόρτου ανά ΔΜ)	125										
STUDENTS EVALUATION	<p>The final grade of the course shall be determined by the student's performance in both the theoretical and the laboratory parts, provided that the student has been assessed with a promotional grade in each part of the course.</p> <p>The evaluation of the course as regards the theoretical part shall be based on a written final examination.</p> <p>1. The written final examination of the theoretical part shall include:</p> <ul style="list-style-type: none"> - Multi-Select Questions - Troubleshoot problems in applying acquired knowledge. - Benchmarking of theory data. <p>2. The examination of laboratory exercises shall include the evaluation of laboratory skills acquired through examination of laboratory exercises, where laboratory equipment is used. Projects may also be contracted out with the industry, in collective or individual stages</p>										

3. RECOMMENDED BIBLIOGRAPHY

<p>Συγγράμματα μέσω του συστήματος ΕΥΔΟΞΟΣ</p> <p>Περιβολιώτου, Μ., (2004). Η Τέχνη του ΥφάσματοςII- Υφαντική, Διαπλεκτική. 1ων Κωδικός Βιβλίου στον Εύδοξο: 14581</p> <p>Βασιλάκος, Α., (2008). Ψηφιακές Μορφές Τέχνης. ΕκδόσειςΤΖΙΟΛΑ Κωδικός Βιβλίου στον Εύδοξο: 18549065</p> <p>Συγγράμματα που διανέμονται μέσω του Πανεπιστημίου ή της ηλεκτρονικής σελίδας του μαθήματος</p> <p>Ε.Παπαχρήστου, Ψηφιακός Σχεδιασμός Υφάσματος- Σημειώσεις και διαφάνειες Θεωρίας, Κιλκίς.</p> <p>Ε.Παπαχρήστου, Ψηφιακός Σχεδιασμός Υφάσματος- Εργαστηριακές ασκήσεις, Κιλκίς.</p> <p>Συμπληρωματική προτεινόμενη βιβλιογραφία</p> <p>Clarke Braddock, S., & Hariis, J., (2012) <i>Digital Visions for Fashion + Textiles made in code</i>, Thames and Hudson Ltd</p> <p>Doe, T., (2015) <i>Textile Design in the Digital Age</i>, Goodman Books</p> <p>Jackson, P., (2018). How to Make a Repeat Pattern : A Guide for Designers, Architects and Artists. Laurence King Publishing</p> <p>Clothing and Textiles Research Journal</p>
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Principles of Marketing in Clothing

1. General

FACULTY	School of Design Science		
DEPARTMENT	Department of Creative Design and Clothing (Kilkis)		
LEVEL OF STUDY	<i>Undergraduate</i>		
COURSE CODE	306	SEMESTER	3*
TITLE	Principles of Marketing in Clothing		
Autonomous Teaching Activities		ΕΒΔΟΜΑΔΙΑΙΕΣ ΩΡΕΣ ΔΙΔΑΣΚΑΛΙΑΣ	ΠΙΣΤΩΤΙΚΕ Σ ΜΟΝΑΔΕΣ
	Lectures	3	4
		3	
COURSE TYPE	Compulsory course, General Infrastructure		
PREREQUISITE COURSES	-		
TEACHING LANGUAGE	Greek		
COURSE OFFERED TO ERASMUS STUDENTS	YES (Project assignments in English)		

2. LEARNING OUTCOMES

Μαθησιακά Αποτελέσματα
<p>The aim of this module is to help students understand the principles, philosophy and applications that characterize marketing in clothing. More specifically, the purpose of the course is to present the contribution and function of marketing in the field of apparel organizations. Through the study to be carried out, the student will become capable to understand the:</p> <ol style="list-style-type: none"> 1. The role of the Marketing Information System and Marketing Research in supporting clothing marketing decisions 2. The parameters used to segment the markets. 3. Identify the elements of the Marketing mix to be used to design a Marketing strategy in clothing. <ul style="list-style-type: none"> • Explore the electronic tools that facilitate marketing communications in the clothing industry. 1. The case study tool is used for problem solving and decision making

- Key functions related to the modern management of marketing analysis in the field of clothing organizations
- Methodological approaches and design interventions to effectively monitor the factors affecting their performance in clothing organizations in order to measure the resulting benefits (in the broader social, economic, environmental context).
- Academic contribution and approach of the subject

General Skills

- Search, analyze and synthesize data and information using the necessary technologies.
- Working in an international environment.
- Adaptation to new situations.
- Promote free, creative and inductive thinking.
- Decision making.
- Teamwork.
- Respect for diversity and multiculturalism.

1. COURSE CONTENT

This course will introduce students to current principles in clothing organizations. The classes (in **Greek and English**) focus specifically on the following topics:

1. Historical development of Marketing. Introduction to its basic functions.
2. Marketing environment in clothing.
3. The importance of marketing research.
4. Target market definition, clothing market segmentation, product / clothing brand placement.
5. Marketing Mix: The Strategy of the product.
6. The pricing strategy in clothing.
7. The system strategy distribution in clothing.
8. The strategy of communication and promotion in clothing. International Marketing. Strategies in Clothing.
9. New forms of Marketing.
10. Digital Marketing (e-marketing) in clothing.
11. Launch, develop and achieve a marketing plan goal.

12. TEACHING AND LEARNING METHODS - ASSESSMENT

TEACHING METHOD	Face to face (lectures, power point presentations and class discussions, case studies).
ICT USE	Computer, multimedia projector, Internet, e-mail, moodle platform.

TEACHING ORGANIZATION	<p>Activities Working Load per Semester</p> <p>Lectures, power point presentations, case studies 40</p> <p>Field exercises 35</p> <p>Asynchronous autonomous study 25</p> <p>Total</p> <p>100</p>
ASSESSMENT	<ul style="list-style-type: none"> • Written final exam (70%) that includes development and comparative evaluation of theory with emphasis on the clothing industry • Individual assignments (30%) concerning the consumer and clothing brands

1. RECOMMENDED BIBLIOGRAPHY

Συγγραμματα μέσω του συστήματος EYAOΞΟΣ

Compulsory Textbooks:

- Τζωρτζάκης Κ. , Α. Charlesworth «Μάρκετινγκ», περιλαμβάνει και digital Marketing, εκδόσεις Rossili, 1^η ελλην. Έκδοση, 2020., ISBN: 978-618-5131-73-9, Code Eudoxus 86201258
- Βλαχβέη, Α. (2019). Μάρκετινγκ: Αρχές, στρατηγικές, εξελίξεις και νέα δεδομένα, Εκδόσεις Μπένου, Code Eudoxus 86198072
- Σιώμοκος, Γ. «Στρατηγικό Μάρκετινγκ», εκδόσεις Broken Hill Publishers Ltd., 5^η έκδοση, 2018. ISBN: 978-992-556-368-5

Optional Textbooks:

- Solomon M. et al. «Μάρκετινγκ», εκδόσεις Τζιόλα, 10η έκδοση, 2020. Kotler-Keller «Μάρκετινγκ Μάνατζμεντ», εκδόσεις Κλειδάριθμος, 15η αμερ. έκδοση, 2016.
- Armstrong G. & Kotler P., (2009). Εισαγωγή στο Μάρκετινγκ. Εκδόσεις Επίκεντρο, Θεσσαλονίκη.
- Παντουβάκης, Α., Σιώμοκος Γ., Χρήστου Ε.(2015). Εισαγωγή στο Μάρκετινγκ. Εκδόσεις Λιβάνη. ISBN13 9789601429601
- Πανηγυράκης Γ., Σιώμοκος Γ., (2005). Μελέτες Περιπτώσεων Μάρκετινγκ. Εκδόσεις Σταμούλης, Αθήνα
- Σιώμοκος Γ., (2004). Στρατηγική Μάρκετινγκ.. Εκδόσεις Σταμούλης, Αθήνα

Suggested journals-articles:

- Journal of Fashion Marketing and Management
- Journal of Global Fashion Marketing
- Journal of marketing
- European Journal of marketing
- Journal of marketing management
- Journal of Retailing and Consumer Services

Useful Links:

- <https://www.ama.org/>

- <https://www.wtamu.edu/~sanwar.bus/otherlinks.htm>
- <http://www.elam.gr/>
- Academy of Marketing: <http://www.academyofmarketing.info/>
- Academy of Marketing Science: <http://www.ams-web.org/>
- AIEST (International Association of Scientific Experts in Tourism): <http://www.aiest.org/>
- American Marketing Association: <http://www.marketingpower.com/>
- Association for Consumer Research: <http://www.acrweb.org/>
- Association for Qualitative Research: <http://www.aqr.org.uk/>
- Association Française du Marketing: <http://www.afm-marketing.org/>
- Chartered Institute of Marketing: <http://www.cim.co.uk/>
- Direct Marketing Association: <http://www.the-dma.org/>
- e-Marketing Association: <http://www.emarketingassociation.com>
- European Marketing Academy: <http://www.emac-online.org/associations/emac/index.asp>
- European Society for Opinion & Marketing Research (ESOMAR): <http://www.esomar.org>
- Ελληνικό Ινστιτούτο Μάρκετινγκ: http://www.eede.gr/i_eim_about.htm
- Federation of European Direct Marketing: <http://www.fedma.org>

4o SEMESTER

Conception & Development of a Design idea

1. GENERAL

SCHOOL	Design sciences		
DEPARTMENT	Creative Design & Clothing		
LEVEL OF STUDIES	<i>Undergraduate</i>		
MODULE CODE	401	SEMESTER	4st
MODULE TYPE	Conception & Development of a Design idea		
TEACHING METHODS AND ACTIVITIES	LECTURES	LEARNING HOURS PER WEEK	CREDIT UNITS
	lectures	2	
	studio	3	
	TOTAL	5	5

MODULE TYPE	Μάθημα Υποχρεωτικό, Επιστημονικού Πεδίου, Ειδικής Υποδομής
PREREQUISITE MODULES	Fashion Product Design
LANGUAGE OF TEACHING / EXAMS LANGUAGE	greek
COURSE OFFERED TO ERASMUS STUDENTS	yes (english)
MODULE WEB PAGE (URL)	https://elearning.cm.ihu.gr/course/view.php?id=666

2. LEARNING OUTCOMES

LEARNING OUTCOMES	
<p>The course focuses on the production of design knowledge that is required in the phases of Conceptual Design (conceptualization phase). The aim is to learn conceptual tools for capturing design ideas (Concept Design and Development) related to different categories of Garments and the techniques required.</p> <p>Sub-objectives of the course are: Methodological design with emphasis on the implementation of design objectives, design through understanding the needs and requirements of users, introduction to conceptual design with emphasis on functionality, usability, aesthetic quality and technical perfection, capture of design ideas in portfolio. Evaluation of design ideas.</p> <p>After attending the course students should be able to:</p> <ul style="list-style-type: none"> · understand the concept of conceptual design using creative and methodological tools. · be able to adequately handle and produce a set of tools and methods for the development and design of clothing products. · realize the role of multiple functions in creating a new product. · present and defend their design ideas. · be able to independently manage knowledge and adapt to complex and unclear design problems. 	
General Skills	

Search, analysis and synthesis of data and information, using the necessary technologies
 Decision making
 Production of new research ideas
 Exercise criticism and self-criticism
 Promoting free, creative and inductive thinking
 Project design and management

3. MODULE CONTENT

Theoretical & Studio course. Design methodology with emphasis in accomplishing design goals. Understanding the consumers' needs & requirements. Creating a concept with a focus on functionality, usability, aesthetics quality & technique adequacy. Developing ideas through concept boards, evaluating design process & ideas.

4. TEACHING AND LEARNING METHODS - EVALUATION

<p>TEACHING METHODOLOGY .</p>	<p>development, execution & monitoring of individual work. Group discussion and review of works.</p>														
<p>USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES</p>	<p>Communication with students through the e-learning platform</p>														
<p>TEACHING PLAN</p>	<table border="1"> <thead> <tr> <th data-bbox="517 1330 836 1442"><i>Activity</i></th> <th data-bbox="836 1330 1155 1442"><i>Semester Workload</i></th> </tr> </thead> <tbody> <tr> <td data-bbox="517 1442 836 1532">Lectures</td> <td data-bbox="836 1442 1155 1532">25</td> </tr> <tr> <td data-bbox="517 1532 836 1621"></td> <td data-bbox="836 1532 1155 1621"></td> </tr> <tr> <td data-bbox="517 1621 836 1711">studio</td> <td data-bbox="836 1621 1155 1711">55</td> </tr> <tr> <td data-bbox="517 1711 836 1800"></td> <td data-bbox="836 1711 1155 1800"></td> </tr> <tr> <td data-bbox="517 1800 836 1890">Personal study/research</td> <td data-bbox="836 1800 1155 1890">45</td> </tr> <tr> <td data-bbox="517 1890 836 1957"></td> <td data-bbox="836 1890 1155 1957"></td> </tr> </tbody> </table>	<i>Activity</i>	<i>Semester Workload</i>	Lectures	25			studio	55			Personal study/research	45		
<i>Activity</i>	<i>Semester Workload</i>														
Lectures	25														
studio	55														
Personal study/research	45														

	<p>Module Total</p> <p><i>(25 h Semester Workload / CU)</i></p>	<p>125</p>
<p>STUDENT EVALUATION</p>	<p>The evaluation of the course includes the skills acquired through a final examination of a related topic and evaluation of the whole studio projects</p>	

5 RECOMMENDED BIBLIOGRAPHY

1. Ulrich, K. *DESIGN-Creation of Artifacts in Society*
2. FRINGS, G.S. (1991). *Fashion from Concept to Consumer*. New Jersey: Prentice-Hall Inc.
3. GARNHAM, A. & OAKHILL, J. (1994). *Thinking & Reasoning*. Oxford: Blackwell Publishers.
4. FIORE, Anne Marie, & KIMLE, Patricia Anne, 1997. *Understanding Aesthetics for the Merchandising & Design Professional*. New York: Fairchild Publications, Inc.

Design & Technology of Clothing Prototypes II

1. GENERAL

SCHOOL	DESIGN SCIENCES		
DEPARTMENT	CREATIVE Design & FASHION		
LEVEL OF STUDIES	UNDERGRADUATE		
MODULE CODEM	402	SEMESTER N	4o
MODULE TITLE	Design & Technology of Clothing Prototypes II		
TEACHING METHODS AND ACTIVITIES	LEARNING HOURS PER WEEK	CREDITS UNITS	
Lectures	2	6	
practise Assessments	4		
TOTAL	6		
MODULE TYPE	Μάθημα Υποχρεωτικό, Επιστημονικού Πεδίου, Ανάπτυξης Δεξιοτήτων, Ειδικής Υποδομής		
PREREQUISITE MODULES:	Principles of Garment Making		
LANGUAGE OF TEACHING / EXAMS LANGUAGE :	Greek		
COURSE OFFERED TO ERASMUS STUDENTS	Yes (in English)		

1. LEARNING OUTCOMES

1 LEARNING OUTCOMES

The course aims to provide the student, basic knowledge and skills of making and processing patterns for woven garments. The interest is focused on understanding the pattern design techniques of drafting and using basic blocks for creating new designs.

Upon successful completion of the course the student should be able to:

- recognize the peculiarities of the patterns for knitted garments
- apply the methodologies for drafting trousers and knitted blocks.
- create pattern designs from basic blocks or modification of existing patterns.
- apply the methodologies for drafting simple and complex knitted patterns such as raglan sleeve, swimwear, underwear, twisted, knotted, oversized ect.
- apply the methodologies for drafting simple and complex trousers patterns such as slim, flared, cargo, buggy, cowl, tulip, ect.
- combine techniques for constructing models of various designs.
- implement clothing prototypes
- adopt all the above techniques, applying them in complicated trousers and knitted designs

General Skills

- Individual work
- Skills Development
- Search, analysis and synthesis of data and information, using the necessary technologies
- Adaptation to new situations

3. MODULE CONTENT

Lectures/Theory:

Block construction and manipulation for creating a wide range of trousers and jersey garment designs. The specifications of the garment and the measurements for the accuracy of the design. Creating specification sheets.

Lab/Practice:

Pattern cutting of simple and complex designs of trousers (e.g. high and low waist, yokes, pleats, flared, harem, baggy, cowl, jumpsuit, overall) with details such as pockets, turn ups, pleats, etc and knitted garment based on the properties of the fabric (e.g. t-shirts, body, leggings, swimwear, underwear, twisted, knotted, wrapped, oversized) applying

methods and techniques in scale and real size. Pattern design and projects implementation.

4. TEACHING AND LEARNING METHODS - EVALUATION

TEACHING METHODOLOGY	Lectures with presentation of methodology. Laboratory Exercise with presentation and practice individually. Monitoring and on-site correction of progress														
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	Communication via e-mail.														
TEACHING PLAN	<table border="0"> <thead> <tr> <th><i>Activity</i></th> <th><i>Semester Workload</i></th> </tr> </thead> <tbody> <tr> <td>Lectures</td> <td>51</td> </tr> <tr> <td>Studio Work</td> <td>52</td> </tr> <tr> <td>Atelier</td> <td>26</td> </tr> <tr> <td>Self-oriented research</td> <td>21</td> </tr> <tr> <td colspan="2">Module Total 150</td> </tr> <tr> <td colspan="2"><i>(25 h Semester Workload / CU)</i></td> </tr> </tbody> </table>	<i>Activity</i>	<i>Semester Workload</i>	Lectures	51	Studio Work	52	Atelier	26	Self-oriented research	21	Module Total 150		<i>(25 h Semester Workload / CU)</i>	
<i>Activity</i>	<i>Semester Workload</i>														
Lectures	51														
Studio Work	52														
Atelier	26														
Self-oriented research	21														
Module Total 150															
<i>(25 h Semester Workload / CU)</i>															
STUDENT EVALUATION	<p>The final grade of the course is formed by evaluating the students both in theory and in lab, provided that in each part of the course a passing grade have been secured.</p> <ul style="list-style-type: none"> • The evaluation of the theoretical part consists of a written examination which includes: Short answer questions • The evaluation of the laboratory consists of a final drafting a pattern design from a technical flat or projects 														

5.1 RECOMMENDED BIBLIOGRAPHY

Συγγράμματα μέσω του συστήματος ΕΥΔΟΞΟΣ

Book [14725]: Pattern Cutting For Lingerie Beachwear and Leisure,
HaggarAnn

Style Semiology

1. GENERAL

SCHOOL	Design sciences		
DEPARTMENT	Creative Design & Clothing		
LEVEL OF STUDIES	<i>Undergraduate</i>		
MODULE CODE	403	SEMESTER	4o
MODULE TITLE TEACHING METHODS AND ACTIVITIES	Style Semiology		
TEACHING METHODS AND ACTIVITIES	LEARNING HOURS PER WEEK	CREDIT UNITS	
Lectures	3	4	
Εργαστηριακές Ασκήσεις			
TOTAL	3		
MODULE TYPE	Μάθημα Υποχρεωτικό, Επιστημονικού Πεδίου, Ειδικής Υποδομής		
PREREQUISITE MODULES			
LANGUAGE OF TEACHING / EXAMS LANGUAGE	Greek		
COURSE OFFERED TO ERASMUS STUDENTS	yes (in english)		
MODULE WEB PAGE (URL)	https://elearning.cm.ihu.gr/course/view.php?id=190		

2. LEARNING OUTCOMES

LEARNING OUTCOMES

The course seeks a semantic approach to the predominance of a style and aims through the study of 20th century designer style to enable students to recognize the elements that structure it and reproduce it through its technical and aesthetic details. Upon successful completion of the course students should:

- Understand modern costume approaches and interpret them
- Recognize the clothing elements that characterize a style
- Describe this style in detail
- reproduce a costume proposal with an emphasis on maintaining style
- approach a stylistic phenomenon with a critical spirit

General Skills

- Research and sources analysis.
- Presentation and highlighting of individual issues.
- Teamwork.

3. MODULE CONTENT

- **Theory.** A study on styles that appeared in Art and Fashion and were followed by different designers: from Bauhaus' minimalism to the 60s futurism. From the 80s Androgyne & Unisex to the a-gender generation. The grunge through the Belgian designers' of the 90s. Fashion Deconstruction. Historical Maximalism. Folclore & Ethnic. From Metabolists to style Bio. The Japanese style.

4. TEACHING AND LEARNING METHODS - EVALUATION

TEACHING METHODOLOGY	Theoretical teaching with powerpoint presentations, research in bibliography sources, issues development.
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	Communication with students through the e-learning platform

TEACHING PLAN	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #d9ead3;"><i>Activity</i></th> <th style="background-color: #d9ead3;"><i>Semester Workload</i></th> </tr> </thead> <tbody> <tr> <td>lectures</td> <td style="text-align: center;">50</td> </tr> <tr> <td>Project</td> <td style="text-align: center;">25</td> </tr> <tr> <td>Personal study</td> <td style="text-align: center;">25</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td>Module Total <i>(25 h Semester Workload / CU)</i></td> <td style="text-align: center;">100</td> </tr> </tbody> </table>	<i>Activity</i>	<i>Semester Workload</i>	lectures	50	Project	25	Personal study	25			Module Total <i>(25 h Semester Workload / CU)</i>	100
	<i>Activity</i>	<i>Semester Workload</i>											
	lectures	50											
	Project	25											
	Personal study	25											
Module Total <i>(25 h Semester Workload / CU)</i>	100												
STUDENT EVALUATION	<p>The final grade of the course comes of the performance of the students in the theoretical part.</p> <p>The evaluation of the course in terms of the theoretical part acquires</p> <ul style="list-style-type: none"> • compulsory work / presentation & • written final exam. <p>The written final examination of the theoretical part includes:</p> <ul style="list-style-type: none"> - development questions. 												
<p><i>Assessment Language, Assessment Methods, Formative or Conclusive, Multiple Choice Test, Short Answer Questions, Essay Development Questions, Problem Solving, Written Assignment, Report, Oral Exam, Public Presentation, Artistic Project, Other</i></p>													

5. RECOMMENDED BIBLIOGRAPHY

1. Roland Barthes, (2016). *The system of fashion*
2. Craik, J. (2009). Fashion, aesthetics and art. In J. Craik, *Fashion: The key concepts* (pp. 171-198). Oxford, GBR: Berg.
1. Davis, F. (1992). *Fashion, Culture and Identity*, Chicago: University of Chicago Press.
2. Loschek, I. (2009). Does fashion need a theory? In I. Loschek, *When clothes become fashion: Design and innovation systems*. Oxford: Berg. Murray, M. P. (1989). *Changing Styles in Fashion: Who, What, Why*. New York: Fairchild.
3. Vinken, B., & Hewson, M. (2004). Comme des Garçons: Ex Oriente Lux. In B. Vinken, & M. Hewson, *Fashion Zeitgeist : Trends and Cycles in the Fashion System* (pp. 99-108). Oxford, GBR: Berg.
4. Vinken, B., & Hewson, M. (2004). Martin Margiela: Signs of Time. In B. Vinken, & M. Hewson, *Fashion Zeitgeist : Trends and Cycles in the Fashion System* (pp. 139-151). Oxford, GBR: Berg.

TEXTILE PROCESSING

(1) GENERAL

SCHOOL	DESING SCIENCES		
ACADEMIC UNIT	CREATIVE DESING AND CLOTHING		
LEVEL OF STUDIES	UNDERGRADUATE		
COURSE CODE	404	SEMESTER	4th
COURSE TITLE	TEXTILE PROCESSING		
INDEPENDENT TEACHING ACTIVITIES		WEEKLY TEACHING HOURS	CREDITS
Lectures		3	5,5

	Laboratory exercises	2	1
COURSE TYPE	General background		
PREREQUISITE COURSES:	No		
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek		
IS THE COURSE OFFERED TO ERASMUS STUDENTS	Yes in English		
COURSE WEBSITE (URL)	e-learning platform (cdc.ihu.gr)		

(2) LEARNING OUTCOMES

Learning outcomes

The course learning outcomes, specific knowledge, skills and competences of an appropriate level, which the students will acquire with the successful completion of the course are described.

After successfully attending the course students will have:

- Knowledge of basic processes for fibers, yarns, fabrics, clothes for the qualitative and aesthetic upgrading of textile products with emphasis on clothes.
- Knowledge of preparation, dyeing, printing, finishing and the quality requirements of textiles are the subject of a theoretical and experimental investigation.

After successfully attending the course, students should be familiar with the machines, materials and technology for:

- Preparation for dyeing of textiles.
- How to dye different fibers and fabrics.
- The technique and types of prints.
- Ways and types of finishing.
- Be aware of the qualitative assessment of the above processes and environmental requirements / impacts.

General Competences

Taking into consideration the general competences that the degree-holder must acquire (as these appear in the Diploma Supplement and appear below), at which of the following does the course aim?

General competences that the degree-holder will acquire:

- Search for, analysis and synthesis of data and information, with the use of the necessary technology.
- Respect for the natural environment.
- Production of free, creative and inductive thinking.
- Working independently.

- **Team work.**

(3) SYLLABUS

Theoretical part:

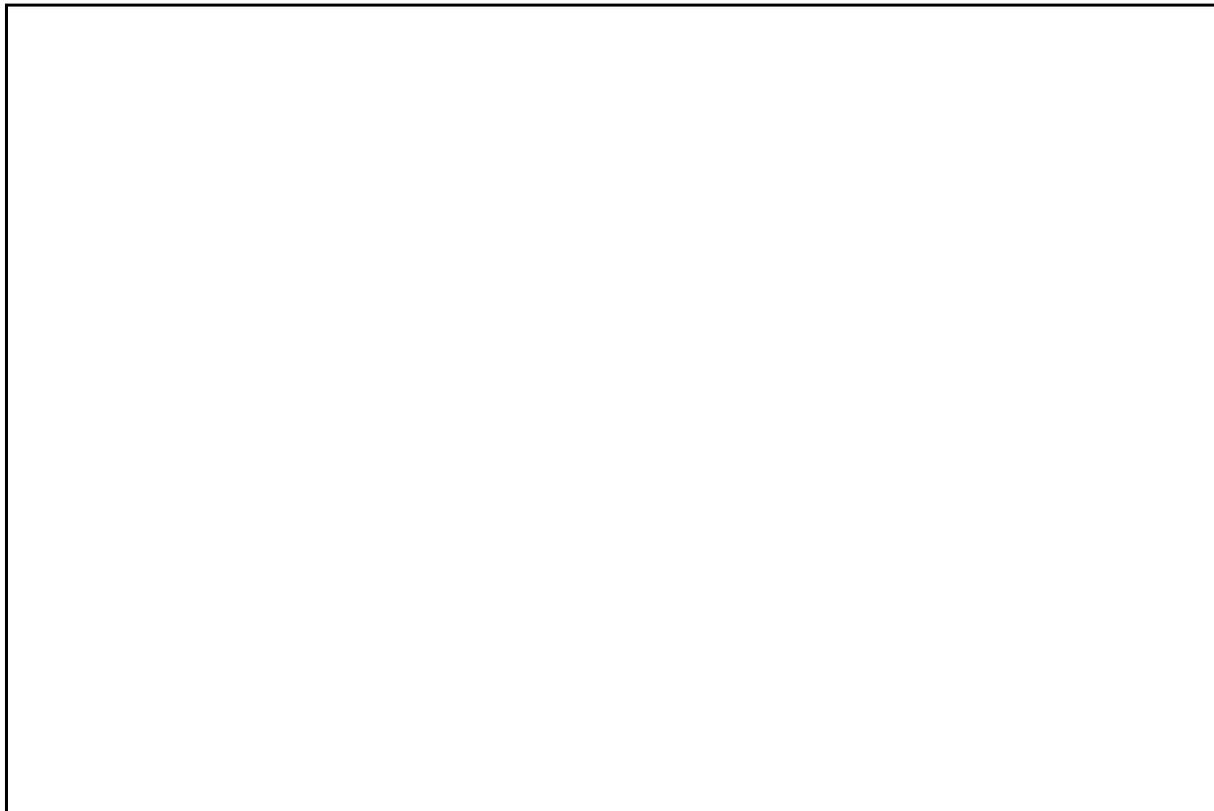
Preparation of fabrics for dyeing (machines, materials and technology for the most representative textile fibers). Dyeing. Apply selected dye groups for the most common applications in fabrics and ready-to-wear clothes, with exhaustive and continuous techniques. The operation of dyeing and knitting machines, woven fabrics and special products. Materials and factors affecting the dyeing, parameters of the dyeing process and its control. Types. Chemical and mechanical properties. Methods and machines for printing (cylinders, stacks, inkjet). Batik and Tie-dye styles. Innovative applications and alternative printing methods. Stiffening mechanism. Errors and checks of prints.

Finishes. Mechanical and chemical finishing of knitted and woven fabrics. Processes and finishing materials. Techniques and effects. Innovative materials, requirements in the clothing industry. Qualitative and quantitative assessment of the results of dyeing and finishing treatments. Environment and ecological requirements.

Laboratory part:

Experimental implementation regarding:

- the preparation and cleaning of textile products
- Dyeing treatments by type of fabric and corresponding dyeing.
- Printing applications with flat-panel, ink-jet and transfer techniques.
- Finishing process applications



(4) TEACHING and LEARNING METHODS - EVALUATION

DELIVERY	Face-to-face	
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY	Use of ICT in teaching, laboratory education, communication with students	
TEACHING METHODS <i>The manner and methods of teaching are described in detail.</i> <i>Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, placements, clinical practice, art workshop, interactive teaching, educational visits, project, essay writing, artistic creativity, etc.</i> <i>The student's study hours for each learning activity are given as well as the hours of non-</i>	<i>Activity</i>	<i>Semester workload</i>
	Lectures	50
	Laboratory practice	40

<p><i>directed study according to the principles of the ECTS</i></p>	<p>Team work</p>	<p>30</p>
	<p>Educational visits</p>	<p>10</p>
	<p>Self-study</p>	<p>32,5</p>
	<p>Course total</p>	<p>162,5</p>
<p style="text-align: center;">STUDENT PERFORMANCE EVALUATION</p> <p><i>Description of the evaluation procedure</i></p> <p><i>Language of evaluation, methods of evaluation, summative or conclusive, multiple choice questionnaires, short-answer questions, open-ended questions, problem solving, written work, essay/report, oral examination, public presentation, laboratory work, clinical examination of patient, art interpretation, other</i></p> <p><i>Specifically-defined evaluation criteria are given, and if and where they are accessible to students.</i></p>	<p>Language of the evaluation methods: Greek</p> <p>In theory</p> <p>Written final exam comprising:</p> <ul style="list-style-type: none"> - Short-answer questions - Combination judgment questions -Comparative evaluation of theory data <p>In the laboratory</p> <p>Written examination comprising:</p> <ul style="list-style-type: none"> - Short answer questions - Combination judgment questions - Problem solving 	

(5) ATTACHED BIBLIOGRAPHY

Greek

- 1. Dyeing and Finishing Technology, D. J. Hill, M. E. Hall, D. A. Holmes,
M. Lomas, K. Padmore, Translation Th.Peppas, S. Vassiliadis, Athens 2003**
- 2. Chemistry of Polymer, G. Karagiannidis, E. Sideridou, Ziti Publishing, 2006**
- 3. Chemistry and Technology of Color, I. Eleftheriadi, E. Tsatsaroni,
N. Nikolaidis Publications KALLIPOS e-book**
- 4. University Traditions of Organic Chemical Technology S. Peyadou,
E. Tsatsaroni, I. Eleftheriadi, AUTH, 2000**
- 5. Art and Communication in Graphic Arts Volume C Color K. Stathakis
I. Eleftheriadis, Hellenic Open University of Patras, 2002**
- 6. Elements of dyeing N. Gripari, Athens 1997**
- 7. D. Thomson, Avtoterba, Armo, Athens, 1997.**

Other Languages

- 1. Giles, C. H. A., Laboratory Course in Dyeing, 4th edition, The Society of Dyers
and Colourists, Bradford, 1990**
- 2. D. M. Lewis, Wool Dyeing, Society of Dyers and Colourists, Bradford, 1992.**
- 3. R. Donald, Colour physics for industry, Soc. of Dyers and Colourists, Bradford, 1987**
- 4. B. Meyer, H. R. Zollinger, Colorimetry, Sandoz, Basle, 1989**
- 5. L. W. C. Miles, Textile Printing, Dyers Company Publication Trust, Bradford, 1981**
- 6. E. D. Stiebner, Drucktechnik heute, Novum Press, Münche, 1990**
- 7. M. Peter, H. Rouette, Grundlagen der Textilveredlung, Spohr Verlag, 13 Auflage,
Frankfurt / Main, 1980**
- 8. Tensidaschenbuch, H. Stache, Carl Hanser Verlag, München, Wien, 1981**
- 9. G. Turner, Paint Chemistry, 2th edition, Chapman & Hall, London, NY, 1980.**

Statistics for textile and clothing industry

1. GENERAL

SCHOOL	DESIGN SCIENCES		
DEPARTMENT	CREATIVE DESIGN AND CLOTHING		
LEVEL OF EDUCATION	Undergraduate		
LESSON CODE	405		4*
COURSE TITLE	Statistics for textile and clothing industry		
INDEPENDENT TEACHING ACTIVITIES <i>σε περίπτωση που οι πιστωτικές μονάδες απονέμονται σε διακριτά μέρη του μαθήματος π.χ. Διαλέξεις, Εργαστηριακές Ασκήσεις κ.λπ. Αν οι πιστωτικές μονάδες απονέμονται ενιαία για το σύνολο του μαθήματος αναγράψτε τις εβδομαδιαίες ώρες διδασκαλίας και το σύνολο των πιστωτικών μονάδων</i>	WEEKLY TEACHING HOURS	CREDIT UNITS	
Lecture	3	4	
TOTAL	3		
<i>Προσθέστε σειρές αν χρειαστεί. Η οργάνωση διδασκαλίας και οι διδακτικές μέθοδοι που χρησιμοποιούνται περιγράφονται αναλυτικά στο 4.</i>			
COURSE TYPE: <i>Υποβάθρου, Γενικών Γνώσεων, Επιστημονικής Περιοχής, Ανάπτυξης Δεξιοτήτων</i>	Επιστημονικής Περιοχής		
PREREQUISITE COURSES:	-		
LANGUAGE OF TEACHING AND EXAMS	GREEK		
THE COURSE IS OFFERED TO ERASMUS STUDENTS	YES (in English)		
COURSE WEBSITE (URL)	http://moda.teicm.gr/DEF1947B.el.aspx		

2 LEARNING OUTCOMES

LEARNING OUTCOMES
<p>Περιγράφονται τα μαθησιακά αποτελέσματα του μαθήματος οι συγκεκριμένες γνώσεις, δεξιότητες και ικανότητες καταλλήλου επιπέδου που θα αποκτήσουν οι φοιτητές μετά την επιτυχή ολοκλήρωση του μαθήματος. Συμβουλευτείτε το Παράρτημα Α</p> <ul style="list-style-type: none"> • Περιγραφή του Επιπέδου των Μαθησιακών Αποτελεσμάτων για κάθε ένα κύκλο σπουδών σύμφωνα με Πλαίσιο Προσόντων του Ευρωπαϊκού Χώρου Ανώτατης Εκπαίδευσης • Περιγραφικοί Δείκτες Επιπέδων 6, 7 & 8 του Ευρωπαϊκού Πλαισίου Προσόντων Διά Βίου Μάθησης <p>και Παράρτημα Β</p> <ul style="list-style-type: none"> • Περιληπτικός Οδηγός συγγραφής Μαθησιακών Αποτελεσμάτων

The course aims at acquiring basic knowledge on the concepts and principles of Statistics, the ability to understand a study that contains statistical analysis and finally the ability to use statistical methods in business problems. After successfully completing the course, students will be able to understand basic methods of qualitative and quantitative data analysis and their role in making business decisions. Combined with computer use, students acquire practical skills in how to present information, draw conclusions from large populations by sampling, and realize the possibility of reliable predictions for different financial quantities.

General Abilities

Λαμβάνοντας υπόψη τις γενικές ικανότητες που πρέπει να έχει αποκτήσει ο πτυχιούχος (όπως αυτές αναγράφονται στο Παράρτημα Διπλώματος και παρατίθενται ακολούθως) σε ποια / ποιες από αυτές αποσκοπεί το μάθημα.

*Αναζήτηση, ανάλυση και σύνθεση δεδομένων και πληροφοριών, με τη χρήση και των απαραίτητων τεχνολογιών
Προσαρμογή σε νέες καταστάσεις
Λήψη αποφάσεων
Αυτόνομη εργασία
Ομαδική εργασία
Εργασία σε διεθνές περιβάλλον
Εργασία σε διεπιστημονικό περιβάλλον
Παράγωγή νέων ερευνητικών ιδεών*

*Σχεδιασμός και διαχείριση έργων
Σεβασμός στη διαφορετικότητα και στην πολυπολιτισμικότητα
Σεβασμός στο φυσικό περιβάλλον
Επίδειξη κοινωνικής, επαγγελματικής και ηθικής υπευθυνότητας και εναισθησίας σε θέματα φύλου
Άσκηση κριτικής και αυτοκριτικής
Προσαγωγή της ελεύθερης, δημιουργικής και επαγγελματικής σκέψης*

The course aims at acquiring basic knowledge on the concepts and principles of Statistics, the ability to understand a study that contains statistical analysis and finally the ability to use statistical methods in business problems.

After successfully completing the course, students will be able to understand basic methods of qualitative and quantitative data analysis and their role in making business decisions. Combined with computer use, students acquire practical skills in how to present information, draw conclusions from large populations by sampling, and realize the possibility of reliable predictions for different financial quantities.

3. COURSE CONTENT

Introduction & Descriptive Statistics, Variables – Values - Observations, Types of Variables, Position Measures, Dispersion Measures, Coefficient of Variation, Asymmetry and Kurtosis, Graphs (Histogram & Box Plot)
Introduction to Probability & Distributions of Discrete Random Variables, Mean and Variance of Discrete Random Variable, Bernoulli Distribution, Binomial Distribution, Poisson Distribution Continuous Random Variables Distributions, Probability Functions of Continuous Random Variables, Normal Distribution, t-Student Distribution, χ^2 Distribution, F Distribution Central Limit Theorem, Confidence interval for mean and ratio, Confidence interval for mean value differences, Confidence interval for pairwise observations, Confidence interval for difference of ratios
Sampling, Simple random sampling (error estimation & size of a sample), Systematic sampling, Stratified, Cluster sampling, Multilevel or multistage sampling

Hypothesis tests, Significance test for mean value, Significance test for ratio, Significance test for difference between two mean values, Significance test for comparison of mean values (paired observations, Significance check for comparison of two ratios, Independence test of two categorical variables (X^2)
 Linear correlation - Linear regression, Covariance, Linear correlation coefficient, Simple regression, Regression errors, coefficient of determination, Standard estimation error

4. TEACHING & LEARNING METHODS - EVALUATION

<p>DELIVERY METHODS <i>Πρόσωπο με πρόσωπο, Εξ αποστάσεως εκπαίδευση κ.λπ.</i></p>	<p>Face to face lectures in class and e-learning support</p>								
<p>USE OF INFORMATION & COMMUNICATION TECHNOLOGIES <i>Χρήση Τ.Π.Ε. στη Διδασκαλία, στην Εργαστηριακή Εκπαίδευση, στην Επικοινωνία με τους φοιτητές</i></p>	<p>Teaching support through course webpage, students contact electronically Use of Excel</p>								
<p>TEACHING ORGANIZATION <i>Περιγράφονται αναλυτικά ο τρόπος και μέθοδοι διδασκαλίας. Διαλέξεις, Σεμινάρια, Εργαστηριακή Άσκηση, Άσκηση Πεδίου, Μελέτη & ανάλυση βιβλιογραφίας, Φροντιστήριο, Πρακτική (Τοποθέτηση), Κλινική Άσκηση, Καλλιτεχνικό Εργαστήριο, Διαδραστική διδασκαλία, Εκπαιδευτικές επισκέψεις, Εκπόνηση μελέτης (project), Συγγραφή εργασίας / εργασιών, Καλλιτεχνική δημιουργία, κ.λπ. Αναγράφονται οι ώρες μελέτης του φοιτητή για κάθε μαθησιακή δραστηριότητα καθώς και οι ώρες μη καθοδηγούμενης μελέτης ώστε ο συνολικός φόρτος εργασίας σε επίπεδο εξαμήνου να αντιστοιχεί στα standards του ECTS</i></p>	<table border="0"> <thead> <tr> <th><i>Activity</i></th> <th><i>Semester Workload</i></th> </tr> </thead> <tbody> <tr> <td>Lectures</td> <td>26</td> </tr> <tr> <td>Tutoring</td> <td>13</td> </tr> <tr> <td>Self study</td> <td>61</td> </tr> </tbody> </table> <p style="text-align: center;">Course Total 100 (25 hours of load per Teaching Units)</p>	<i>Activity</i>	<i>Semester Workload</i>	Lectures	26	Tutoring	13	Self study	61
<i>Activity</i>	<i>Semester Workload</i>								
Lectures	26								
Tutoring	13								
Self study	61								
<p>STUDENT EVALUATION <i>Περιγραφή της διαδικασίας αξιολόγησης Γλώσσα Αξιολόγησης, Μέθοδοι αξιολόγησης, Διαμορφωτική ή Συμπερασματική, Δοκιμασία Πολλαπλής Επιλογής, Ερωτήσεις Σύντομης Απάντησης, Ερωτήσεις Ανάπτυξης Δοκιμίων, Επίλυση Προβλημάτων, Γραπτή Εργασία, Έκθεση / Αναφορά, Προφορική Εξέταση, Δημόσια Παρουσίαση, Εργαστηριακή Εργασία, Κλινική Εξέταση Ασθενούς, Καλλιτεχνική Ερμηνεία, Άλλη / Άλλες</i> <i>Αναφέρονται ρητά προσδιορισμένα κριτήρια αξιολόγησης και εάν και πού είναι προσβάσιμα από τους φοιτητές.</i></p>	<p>Final Exam (100%), containing problem solving and/or short answer questions.</p>								

5 RECOMMENDED BIBLIOGRAPHY

-Προτεινόμενη Βιβλιογραφία :
 -Συναφή επιστημονικά περιοδικά:

1. Χλουβεράκης Γ., «Εισαγωγή στη Στατιστική – Περιγραφικές Μέθοδοι και Εφαρμογές», Εκδ. Πεδίο, 2012.
2. Βαλαριστός Α., «Στατιστική Κλωστοϋφαντουργίας και Ένδυσης», Σημειώσεις, Κιλκίς 2010.
3. Δρόσος Γ., «Στατιστική & Ανάλυση δεδομένων», Εκδόσεις Ανικούλα, Θεσσαλονίκη 2006.
4. Χαλικιάς Ι., «Στατιστική – Μέθοδοι Ανάλυσης για Επιχειρηματικές Αποφάσεις», Αθήνα, Εκδόσεις Rosili, 2003.
5. Ζαχαροπούλου Χ., «Στατιστική – μέθοδοι - εφαρμογές», τόμος Α, Θεσσαλονίκη, Εκδ. Ζυγός, 2001.
6. Ιωαννίδης Δ., «Στατιστικές Μέθοδοι» τόμος Ι, Θεσσαλονίκη, Εκδόσεις Ζήτη, 2001.
7. Χάλκος Γ., «Στατιστική, θεωρία – εφαρμογές & χρήση στατιστικών προγραμμάτων σε Η/Υ», Αθήνα, Εκδόσεις τυπωθήτω – Γιώργος Δαρδανός, 2000.
8. Καραπιστόλης Ν., «Στατιστική Επιχειρήσεων», Θεσσαλονίκη, Εκδόσεις Ανικούλα, 2001.
9. Χουβαρδός Β., «Στατιστική Επιχειρήσεων», Μακεδονικές Εκδόσεις, 1996.

Communication and promotion strategies

1. General

FACULTY	School of Design Science		
DEPARTMENT	Department of Creative Design and Clothing		
LEVEL OF STUDY	Undergraduate		
COURSE CODE	406	SEMESTER	4 th
TITLE	Communication and promotion strategies		
Autonomous Teaching Activities	WEEKLY TEACHING HOURS		CREDITS
Lectures	3		5
COURSE TYPE	Compulsory course		
PREREQUISITE COURSES	-		
TEACHING LANGUAGE	Greek		
COURSE OFFERED TO ERASMUS STUDENTS	YES (Project assignments in English)		

1. LEARNING OUTCOMES

Μαθησιακά Αποτελέσματα

The aim of this module is to help students understand the importance of promotion and communication strategies, as determining factors in shaping the promotional mix, in the operation of the clothing organizations. More specifically, it aims to learn the techniques and methods applied by the promotional mix for the analysis of business problems and the formulation of a comprehensive communication marketing strategy in terms of products or services offered. Through the study to be carried out, the student will become capable to understand the:

- Role of the individual components of a Communication and Promotion (C&P) program and how they work together / complement each other.
- Ability to design Marketing research in clothing and apply the findings
- To select the target audience and develop strategies for the (C&P) program
- Understand how (C&P) Strategies help build clothing brand identity, brand relationships and brand value.
- Selection of (C&P) mixes to achieve the communication goals and consumer behavior of the campaign in clothing.
- Monitoring the process of developing an advertising strategy.
- Measure and critically evaluate the communication results of an (C&P) campaign in clothing, to determine its success.
- Academic contribution and approach of the subject

General Skills

- Search, analysis and synthesis of data and information
- Respect for diversity and multiculturalism
- Respect for the natural environment
- Adaptation to new situations
- Decision making
- Autonomous work
- Work in an interdisciplinary environment
- Work in an international environment
- Demonstration of social, professional and moral responsibility and sensitivity to gender issues
- Exercise criticism and self-criticism
- Promoting free, creative and inductive thinking
- Respect for diversity and multiculturalism.

1. COURSE CONTENT

- A. The role of Communication and Promotion Strategies:
- In the marketing plan: how they enhance the "brand value" of clothing and cultivate customer / consumer - brand relationships.
 - In the promotion of new clothing products in the market: segmentation, goals, placement, communication
 - creating, sending and receiving clothing brand messages
- A. Communication tools in clothing
- Advertising
 - Sales promotion
 - Personal sale
 - Public Relations and Promotion of the Clothing Brand
 - Direct Marketing (databases, email)
 - Events, sponsorships and customer service
- A. Types of media:
- Print media
 - TV
 - Radio
 - Outdoor media (posters, banners etc)
 - Internet
- A. Communications programming for the clothing brand:
- Selection of the target audience
 - Development of a strategy for the media
 - Selection of the media
 - Differences in the approach of the consumer (B2C) (eg samples, coupons, privileges) and industrial (B2B) (e.g. discounts, bonuses, joint advertising) market)

1. TEACHING AND LEARNING METHODS - ASSESSMENT

TEACHING METHOD	Face to face (lectures, power point presentations and class discussions, case studies).
ICT USE	Computer, multimedia projector, Internet, e-mail, moodle platform.

TEACHING ORGANIZATION

Activities Working Load per Semester
Lectures, power point presentations, case studies
40
Field exercises 35
Asynchronized autonomous study 25

Total

100

ASSESSMENT	<ul style="list-style-type: none"> • Written final exam (70%) that includes development and comparative evaluation of theory with emphasis on the clothing industry • Individual assignments (30%) concerning the consumer and clothing brands
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1. RECOMMENDED BIBLIOGRAPHY

Compulsory Textbooks:

- Belch, G.E. and Belch, M.A. (2018). Διαφήμιση και Προώθηση (10η έκδ.). Θεσσαλονίκη: Εκδόσεις Τζιόλα
- Ζώτος, Γ. (2018) «Διαφήμιση» (6η έκδ.), Θεσσαλονίκη: University Studio Press

Optional Textbooks:

- Zabkar, V. – Eisend, M. “Advances in advertising research VIII”, HEAL-Link Springer ebooks, 2017.

Suggested Scientific Journals

- Journal of Advertizing
- Journal Advertizing research
- International Journal of Advertizing
- Journal of Fashion Marketing and Management
- Journal of Global Fashion Marketing
- European Journal of Advertizing
- Journal of marketing management
- Journal of Retailing and Consumer Services

Useful Links:

- <https://www.ama.org/>
- www.aaaa.org (American Association of Advertising Agencies)
- www.ipa.co.uk (British Institute of Practitioners in Advertising)
- www.instituteforpr.com (Institute for Public Relations)
- www.ipra.org (International Public Relations Association)
- www.eaca.org (European Association of Communications Agencies)
- Academy of Marketing: <http://www.academyofmarketing.info/>
- Academy of Marketing Science: <http://www.ams-web.org/>
- Aiest (International Association of Scientific Experts in Tourism): <http://www.aiest.org/>
- American Marketing Association: <http://www.marketingpower.com/>
- European Marketing Academy: <http://www.emac-online.org/associations/emac/index.asp>

5^o SEMESTER

Design and Technology of Garment Patterns III

DESIGN & TECHNOLOGY OF GARMENT PATTERNS III

1.GENERAL

SCHOOL	DESIGN SCIENCES		
DEPARTMENT	CREATIVE DESIGN & CLOTHING		
LEVEL OF EDUCATION	<i>UNDERGRADUATE</i>		
LESSON CODE	501	SEMESTER OF STUDIES	5th
COURSE TITLE	DESIGN & TECHNOLOGY OF GARMENT PATTERNS III		
INDEPENDENT TEACHING ACTIVITIES	WEEKLY TEACHING HOURS		CREDIT UNITS
	LECTURES	2	
	PRACTISE EXERCISES		
	LABORATORY EXERCISES	4	
	TOTAL	6	5
COURSE TYPE:	Compulsory Course, Scientific Field, Skills Development, Special Infrastructure		
PREREQUISITE COURSES :	GARMENT DESIGN I, PRINCIPLES OF GARMENT MAKING		
LANGUAGE OF TEACHING AND EXAMS:	GREEK		
THE COURSE IS OFFERED TO ERASMUS STUDENTS	YES (in english)		

COURSE WEBSITE (URL)	
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Learning outcomes
<p>The course aims to provide the student with basic knowledge of making and processing patterns of woven (fixed) garments. The interest is focused on the understanding of the pattern design technique using bases / standards both at the theoretical level and at the application level, for the creation of new clothing product designs.</p> <p>Upon successful completion of the course the student should:</p> <ul style="list-style-type: none"> • has developed skills in handling design tools for making garment patterns. • Be able to clearly describe the methodology of making the garment • accurately identify concepts related to the topic, such as clothing lines. • To be able to design, apply, use, handle all clothing line techniques. • to have organized a personal design system for the development and construction of skirt, corsage & dress design templates.
General Abilities
<ul style="list-style-type: none"> • Autonomic work •Skills Development • Search, analysis and synthesis of data and information, using the necessary technologies • Adaptation to new situations <p>Exercise criticism and self-criticism</p>

3. COURSE CONTENT

<p>Theoretical part: Study and adaptation of bases for the creation of complex clothes, jacket and coat. The contact with new technological materials and their management in the creation of templates Study and applications of specific template designs (Chanel jacket, Blazer, smoking, spencer, etc.). Study to create the desired line.</p> <p>Workshop part: Construction of complex clothing designs and combinations with a common line. Style and line rendering. Applications in different somatometric data. Physical deformities. Study of the technical details of the clothes (finishes, seams, accessories). Development of personal methodology for designing patterns of complex garments (jacket, trench coat, jacket, etc.). Applications in technological fabrics.</p>
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4. TEACHING & LEARNING METHODS - EVALUATION

DELIVERY METHODS.	Theoretical (face to face) teaching with presentation of methodology. Laboratory Exercises. Presentation and then execution of individual work. Monitoring and on-site correction of works.																
USE OF INFORMATION & COMMUNICATION TECHNOLOGIES	Communication with students via e-mail.																
TEACHING ORGANIZATION	<table border="1" data-bbox="624 698 1286 1442"> <thead> <tr> <th data-bbox="624 698 959 786"><i>Activity</i></th> <th data-bbox="959 698 1286 786"><i>Semester Workload</i></th> </tr> </thead> <tbody> <tr> <td data-bbox="624 786 959 873">Lectures</td> <td data-bbox="959 786 1286 873">26</td> </tr> <tr> <td data-bbox="624 873 959 960"></td> <td data-bbox="959 873 1286 960"></td> </tr> <tr> <td data-bbox="624 960 959 1048">Laboratory Exercises</td> <td data-bbox="959 960 1286 1048">52</td> </tr> <tr> <td data-bbox="624 1048 959 1135">Atelier</td> <td data-bbox="959 1048 1286 1135">26</td> </tr> <tr> <td data-bbox="624 1135 959 1223">Independent Study</td> <td data-bbox="959 1135 1286 1223">21</td> </tr> <tr> <td data-bbox="624 1223 959 1310"></td> <td data-bbox="959 1223 1286 1310"></td> </tr> <tr> <td data-bbox="624 1310 959 1442"><i>Course Total (25 hours of load per Teaching Units)</i></td> <td data-bbox="959 1310 1286 1442"><i>125</i></td> </tr> </tbody> </table>	<i>Activity</i>	<i>Semester Workload</i>	Lectures	26			Laboratory Exercises	52	Atelier	26	Independent Study	21			<i>Course Total (25 hours of load per Teaching Units)</i>	<i>125</i>
<i>Activity</i>	<i>Semester Workload</i>																
Lectures	26																
Laboratory Exercises	52																
Atelier	26																
Independent Study	21																
<i>Course Total (25 hours of load per Teaching Units)</i>	<i>125</i>																
STUDENT EVALUATION	<p>The final grade of the course is formed by the performance of the students in both the theoretical and the laboratory part, provided that the student has been evaluated with a promotional grade in each part of the course.</p> <p>The evaluation of the course in terms of the theoretical part is formed by a written final examination of the theoretical part which includes:</p> <ul style="list-style-type: none"> - Short answer questions - Written work through a bibliographic review with a percentage on the final score <p>2. The examination of the laboratory exercises includes the evaluation of the laboratory skills acquired through a final examination of a related topic or laboratory work, optional.</p>																

5 RECOMMENDED BIBLIOGRAPHY

Books through the EYDOXOS system

1. Book [14728]: Σχεδίαση και Κοπή Ανδρικών Ρούχων - Επάγγελμα Σχεδιαστής Μόδας, AldrichWinifred

Additional suggested bibliography

For updates

AESTHETIC THEORIES

1. GENERAL

SCHOOL	DESIGN STUDIES		
DEPARTMENT	CREATIVE DESIGN AND CLOTHING		
LEVEL OF STUDIES	<i>Undergraduate</i>		
MODULE CODE	502	ΕΞΑΜΗΝΟ ΣΠΟΥΔΩΝ	5ο
MODULE TITLE	AESTHETIC THEORIES		
TEACHING METHODS AND ACTIVITIES	LEARNING HOURS PER WEEK	CREDIT UNITS	
Lectures	3	5	
TOTAL	3		
MODULE TYPE	Μάθημα επιστημονικής περιοχής		
PREREQUISITE MODULES			
LANGUAGE OF TEACHING / EXAMS LANGUAGE	GREEK		
COURSE OFFERED TO ERASMUS STUDENTS	NO		

MODULE WEB PAGE (URL)	
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1. LEARNING OUTCOMES

Learning Aims
They will be able to think critically about the ideas of beautiful and ugly and discover the relation with the senses, the emotions and the perceptions. They will be introduced to terms of truth and ethics They will discover how specific philosophers and theorists approach a range of aesthetic theories and also issues from classical antiquity to the modern times
General Skills
<ul style="list-style-type: none">• Individual assignments• Teamwork• Research, analysis and synthesis of information, use of various technologies, exercising criticism and self-criticism

3 MODULE CONTENT

- The Platonic problem
- Art and imitation
- Beauty
- The Aristotelian answer to Plato
- The approach of art in Hellenistic and Roman times.
- The philosophical system of the Stoics
- Aesthetics according to Plotinus
- Medieval aesthetics St. Augustine
- The problem of interpretation and the first theories of interpretation
- Rebirth
- Neoplatonism during the Renaissance
- Leon Batista Alberti
- Aesthetic Theories in the 17th and 18th centuries
- The Kantian problematic for the aesthetic crisis
- The aesthetic theory of Romanticism
- The aesthetics of emotion
- The Frankfurt School and the sociology of art
- The "art for art" movement
- The "school" of Hamburg and the anthropology of art

4. TEACHING AND LEARNING METHODS - EVALUATION

TEACHING METHODS.	Lectures in class include discussion, presentations, fashion case studies and students' active participation.
USE OF TECHNOLOGY, DIGITAL SOFTWARE, DATA AND COMMUNICATION	Communication with students through emails, e-learning website and RSS feeds.

TEACHING SCHEDULE	Activities		Semesters' work load	
	Lectures		45	
	Independent Study		80	
<i>Modules' Total Score</i>	<i>Σύνολο Μαθήματος</i>			
	<i>(25 ώρες φόρτου ανά ΔΜ)</i>		125	

STUDENT EVALUATION	
	<p>The final grade of the course is formed by the performance of the students in both the theoretical and the laboratory part, provided that the student has been evaluated with a promotional grade in each part of the course.</p> <p>The evaluation of the course in terms of the theoretical part is formed by a written final examination of the theoretical part which includes:</p> <ul style="list-style-type: none"> - Short answer questions - Written work through a bibliographic review with a percentage on the final score <p>2. The examination of the laboratory exercises includes the evaluation of the laboratory skills acquired through a final examination of a related topic or laboratory work, optional.</p>

5 RECOMMENDED BIBLIOGRAPHY

Dewey, John, *Art as Experience*, Capricorn Books, New York, 1958.

Gadamer, Hans-Georg, *Philosophical Apprenticeships*, The M.I.T. Press, Cambridge, Mass., 1985.

Gombrich, E. H., *Art and Illusion: A Study in the Psychology of Pictorial Representation*, Second Edition, Revised, Pantheon Books, New York, 1961.

Stern, Raphael, Rodman, Philip and Cobitz, Joseph, (eds.), *Creation and Interpretation*, Haven Publications, New York, 1985.

Venturi, Lionello, *Storia della critica d'arte*, Einaudi, 2000.

Costing Methods

1. GENERAL

SCHOOL	DESIGN SCIENCES		
DEPARTMENT	CREATIVE DESIGN AND CLOTHING		
LEVEL OF EDUCATION	<i>Undergraduate</i>		
LESSON CODE	503	SEMESTER OF STUDIES	5 ^o
COURSE TITLE	Costing Methods		
INDERENDENT TEACHING ACTIVITIES		WEEKLY TEACHING HOURS	CREDIT UNITS
Lectures		3	5
TOTAL		3	

COURSE TYPE:	Επιστημονικής Περιοχής
PREREQUISITE COURSES:	-
LANGUAGE OF TEACHING AND EXAMS:	GREEK
THE COURSE IS OFFERED TO ERASMUS STUDENTS	Yes (in english)
COURSE WEBSITE (URL)	https://elearning.cm.ihu.gr/course/view.php?id=346

2 LEARNING OUTCOMES

LEARNING OUTCOMES
<p>The course aims to provide knowledge of concepts related to costs, types of costs, ways of calculating costs, adapting the types of costs to the requirements of a cost model, applications with examples of general and specific nature, issues related to costing practices and cost research. It also offers the study of basic software of simple cost forms.</p> <p>Upon successful completion of the course students will have acquired knowledge about costs and types of costs, will be familiar with the purpose and method of cost research, will know how to evaluate and control inventories, key cost factors and special cost cases (break even level, equivalent numbers). They will also be able to carry out a costing plan to implement a budget or accounting costing and will be aware of the factors that affect the cost of producing garments.</p>
General Abilities

- · Data search, analysis and synthesis using the necessary technologies
- · Decision making
- · Autonomous work
- · Work in an interdisciplinary environment
- · Application of knowledge in practice
- · Promoting free, creative and inductive thinking

3. COURSE CONTENT

Costing, Definitions, Scope, objectives and significance of costing theory and methods, business decisions and its relationship with financial accounting and management accounting, Cost Objects, Cost centers and Cost Units, Elements of cost, Classification of costs, Calculation of industrial cost of clothing production including direct materials, direct labor, and direct overhead costs, Factors of production, cost analysis, breakeven point, equivalent numbers. Inclusion of general production costs and determination of the total cost of producing garments.

4. TEACHING & LEARNING METHODS - EVALUATION

<p>DELIVERY METHODS <i>Πρόσωπο με πρόσωπο, Εξ αποστάσεως εκπαίδευση κ.λπ.</i></p>	<p>Face-to-face in classroom and online support</p>
<p>USE OF INFORMATION & COMMUNICATION TECHNOLOGIES <i>Χρήση Τ.Π.Ε. στη Διδασκαλία, στην Εργαστηριακή Εκπαίδευση, στην Επικοινωνία με τους φοιτητές</i></p>	<p>Software (Excel) Learning process support through the course website</p>
<p>TEACHING ORGANIZATION</p>	<p>Activity Semester Workload</p> <p>Lectures 26 Tutoring 13 Individual study 86</p> <p>Course Total (25 hours of load per Teaching Units)</p> <p>125</p>
<p>STUDENT EVALUATION</p>	<p>Final exam (100%) that contains solution of exercises and/or short-answer questions.</p>

5 RECOMMENDED BIBLIOGRAPHY

-Προτεινόμενη Βιβλιογραφία :

-Συναφή επιστημονικά περιοδικά:

1. Πετροπούλου Γ. & Ασβεστά Σ., «Θεωρία του κόστους Πρακτικές Εφαρμογές», Εκδ. Γ. Πετροπούλου, 2010.
2. Σαββίδης Γ., «Κοστολόγηση ετοιμών ενδυμάτων», Σημειώσεις, Κιλκίς 2011.
3. Καραϊορδανίδου Α., «Κοστολόγηση Παραγωγής», Εκδ. ΟΕΔΒ, 2005.
4. Πάγγειος Ι.Κ., «Θεωρία κόστους», Εκδ. Σταμούλη, 1993.
5. Βαρβάκης Κ., «Κοστολόγηση και κοστολογική οργάνωση», Εκδ. Παπαζήση, 2013.
6. Μπογιάς Γ., «Κοστολόγηση», Εκδ. Μπογιάς Γ., 2015.
7. Πομόνης Ν.Σ., «Κοστολόγηση θεωρία και πρακτική», Εκδ. Σταμούλη, 2009.

Bibliography in english:

Horngren et al, "Introduction to Management Accounting", Pearson Prentice Hall

P Jagolinzer, "Cost accounting – an introduction to cost management"

Quality Control 1

1. General

SCHOOL	Design Sciences		
ACADEMIC UNIT	Creative Design and Clothing		
LEVEL OF STUDIES	Undergraduate		
COURSE CODE	504	SEMESTER	5th
COURSE TITLE	Quality Control 1		
INDEPENDENT TEACHING ACTIVITIES	WEEKLY TEACHING HOURS	CREDITS	
Lectures	3		
Laboratory	2		
	5	5	
COURSE TYPE	Course of Specialised Area		
PREREQUISITE COURSES:	-		
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek		
IS THE COURSE OFFERED TO ERASMUS STUDENTS	Yes in English		

COURSE WEBSITE (URL)	e-learning platform (cdc.ihu.gr) http://moda.teicm.gr/407E57FB.el.aspx
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2 LEARNING OUTCOMES

Learning outcomes
<i>The course learning outcomes, specific knowledge, skills and competences of an appropriate level, which the students will acquire with the successful completion of the course are described.</i>
<p>The scope of the course is the introduction of the students into the importance of the quality of the textile products. The course includes the analysis of the physical properties of the textile materials with the emphasis on the fibres and yarns which are the raw materials for the fabric and influence their basic mechanical properties.</p> <p>The course analyses the basic concepts of quality and general quality management systems as well as their necessity of and dependence to the quality control in order to perform their function. Through laboratory practice the students can build their experimental and technological knowledge on the official procedure of quality control protocols, understand the behavior of the textile structure properties of both fibre and yarn, as well as the basic characteristics of the fabric constructions.</p> <p>Completing the course the students will be able to</p> <ul style="list-style-type: none"> ● Develop the necessary knowledge for the evaluation process of the properties and technical specifications of textile products and in general, determine the quality characteristics of yarns and both woven and knitted fabrics, articles which are the basic raw material for garment making. ● Develop the basic knowledge for the establishment of quality management systems in a firm through the application of the quality control. ● Develop knowledge for the certification procedure of a firm as regards to the QMS and understand the importance of maintaining its operation
General Competences
<i>Taking into consideration the general competences that the degree-holder must acquire (as these appear in the Diploma Supplement and appear below), at which of the following does the course aim?</i>
<p>General competences that the degree-holder will acquire:</p> <ul style="list-style-type: none"> ● Application of knowledge in actual conditions ● Production of creative, inductive and free thinking. ● Private study ● Teamworking ● Critical thinking

1. Course Content

Theoretical part:

The evolution of the quality control. Introduction into the concepts of quality, customer requirements and the need of physical testing in the quality of textile products. Explanation of the theoretical and technical quality. The need for quality control tests, protocols and the need for calibration of apparatus. The quality production model of 5M and the seven tools which are used for the control of quality during production. Analysis of the basic concepts of the quality management systems, requirements, conformation and the importance of quality control for the implementation and maintenance of the system. The stages for the certifications and audits of QMS.

The influence of the atmospheric conditions in the apparatus and measurements of textile materials. The need and definition of the standard textile conditions in the laboratory. Material behavior and specifications tolerances. Sampling techniques for fiber, yarn and fabrics. Fiber identification in yarns and fabrics, qualitative and quantitative analysis of blends by natural and chemical methods. Basic characteristic testing of fabric as length, width, mass density, thread density and weave pattern.

Determination of fatigue. Determination of the surface density, cover factor and difference between theoretical and actual weight. Tensile testing of the mechanical properties and the influence of viscoelastic properties, time duration of testing, textile creep and sample length. Crease resistance testing of fabrics. Change of appearance of fabrics during wear and pilling (pilling and snagging method). Resistance to abrasion using Martindale apparatus. Appearance evaluation using color light cabin, grayscales and spectrophotometer. Colorfastness of dyed fabrics to washing and to perspiration. Color rub fastness in wet and dry conditions. Testing of fabric hydrophobic and oleophobic coatings. Thermal and electrical Insulation capacity of fabrics, heat of wetting, air-permeability and resulting comfort of garments.

Practice Sessions:

The practice of quality control procedure for the testing of quality characteristics of the fabrics include the following:

- Determination of the basic fabric structural characteristics
- Determination of the difference between the theoretical and actual weight as well as calculation of the fabric surface density and cover factor.
- Determination of the yarn title removed from fabric.
- Evaluation using grayscale and spectrophotometer.
- Crease resistance of fabrics
- Colorfastness to wet and dry rubbing.
- Tensile strength evaluation of fabrics
- Determination of the propensity to pilling (ICI and Martindale method)
- Determination of the abrasion resistance of fabrics

1. TEACHING and LEARNING METHODS - EVALUATION

DELIVERY	Live (Face-to-face presence)
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY	Use of ICT in teaching, educational learning platform and modern communication (forums, chats, asynchronous and live platforms) with students. Use of textile laboratory and textile testing apparatus

<p>TEACHING METHODS The manner and methods of teaching are described in detail. Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, placements, clinical practice, art workshop, interactive teaching, educational visits, project, essay writing, artistic creativity, etc.</p> <p>The student's study hours for each learning activity are given as well as the hours of non-directed study according to the principles of the ECTS</p>	<p>Activity Semester workload</p> <p>Lectures 65</p> <p>Practical Sessions 25</p> <p>Self-study 35</p> <p>Course total 125</p>
<p>STUDENT PERFORMANCE EVALUATION Description of the evaluation procedure</p> <p>Language of evaluation, methods of evaluation, summative or conclusive, multiple choice questionnaires, short-answer questions, open-ended questions, problem solving, written work, essay/report, oral examination, public presentation, laboratory work, clinical examination of patient, art interpretation, other</p> <p>Specifically-defined evaluation criteria are given, and if and where they are accessible to students.</p>	<p>Language of the evaluation methods: Greek</p> <p>A. In theory</p> <p>1. Voluntary group project and presentation which reassures the 20% of the final grade and 10% from the quizzes during attendance of the presentations.</p> <p>2. Written final exam comprising:</p> <ul style="list-style-type: none"> - Short-answer questions - Combination judgment questions <p>B. In the Practical sessions</p> <ul style="list-style-type: none"> - Laboratory Reports (mini projects) which in the case of excellence can provide waive of exams and comprise: <ul style="list-style-type: none"> short answers to questions judgment questions Problem solving 2. Written final exam comprising: <ul style="list-style-type: none"> - Short-answer questions - Combination judgment questions - Problem solving

1. Recommended Bibliography

<p>-Bona M., (2005), Ποιότητα & Έλεγχος Ποιότητας Κλωστοϋφαντουργικών Προϊόντων, Πέππας Θ Βασιλειάδης Σ, Αθήνα</p> <p>Booth J., (1986), Principles of Textile Testing, Heywood Books, London</p> <p>Morton, W.E., Hearle, J.W.S.,(2008), Physical Properties of Textile Fibres: Fourth Edition, The Textile Institute, UK</p> <p>Amutha K, (2016), A practical guide to textile testing</p> <p>Saville B.P.(1999), Physical Testing of Textiles, Woodhead Publishing, UK</p> <p>Jinlian HU,(2008), Fabric testing, The Textile Institute, Woodhead Publishing, UK</p> <p>Sheraz A., Abher R., Ali A, Faheem A.,(2017), Advanced Textile Testing Techniques, CRC Press</p> <p>Κέφης Β.Ν., Διοίκηση Ολικής Ποιότητας, Θεωρία και Πρότυπα, 2^η Έκδοση, Κριτική ΑΕ, Αθήνα</p> <p>Taylor MA, (1993), Technology of textile properties</p> <p>Μπαμπά Μ., Μανωλάκη Μ., Τσουτσαίος Α., “Εργαστηριακός Οδηγός Ποιοτικός Έλεγχος Υφάσματος” ΟΕΛΒ, Αθήνα</p> <p>ASTM – “Annual book of standards”</p> <p>BS – “Handbook of textiles”</p> <p>ISO- International Standards Organization</p> <p>https://www.oeko-tex.com/gr/business/business_home/business_home.xhtml</p> <p>https://cottonmadeinafrica.org/en/</p> <p>https://global-standard.org/</p> <p>https://www.sedex.com/</p>
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New Product Development & Branding (BRAND MANAGEMENT)

1. General

SCHOOL	DESIGN SCIENCES		
DEPARTMENT	CREATIVE DESIGN & FASHION		
LEVEL OF STUDIES	UNDERGRADUATE		
MODULE CODE	505	ΕΞΑΜΗΝΟ ΣΠΟΥΔΩΝ	5
	New Product Development & Branding		
TEACHING METHODS AND ACTIVITIES	LEARNING HOURS PER WEEK	CREDIT UNITS	
Lectures	2	5	
Practise assessments	2		
ΣΥΝΟΛΟ	4		
MODULE TYPE	Μάθημα Επιλογής Υποχρεωτικό, Ανάπτυξης Δεξιοτήτων, Ειδικότητας		
PREREQUISITE MODULES :			
LANGUAGE OF TEACHING / EXAMS LANGUAGE :	Greek		
ER ASMUS	yes (in English)		
MODULE WEB PAGE(URL)			

LEARNING OUTCOMES

Learning Aims
The course aims to enable students to watch and manage a portfolio of clothing brands.
General skills

- Search, analyze and synthesize data and information
- Respect for diversity and multiculturalism
- Respect for the natural environment
- Adaptation to new situations
- Decision making Autonomous work Work in an interdisciplinary environment
- Working in an international environment
- Exercise criticism and self-criticism
- Promoting free, creative and inductive thinking
- Teamwork Project
- Planning and Management

3. MODULE CONTENT

Consumer focused New Product Development in the clothing sector. Creativity and idea generation (brainstorming). Market research and consumer research. Global market and consumer trends and megatrends. Innovation strategies. Strategic planning, product quality, intrinsic/extrinsic cues and oproduct elements. Product development cycle and Product Life Cycle. Product Identity: Defining the parameters – Product standards and specifications. Planning and developing a product range (collection) for a clothing firm.

History of Branding and its role in Marketing Strategy. Clothing brand image - Brand Development in Clothing - The role of Design in the creation of a Clothing Brand. Legal protection for brands. Brand Equity. Clothing Brand extensions. Globalisation of clothing brands: Control issues in manufacturing and distribution. Market research and trend analysis. Brand Management and the promotional mix (VM, trade fairs, organising of events etc.).

4. TEACHING AND LEARNING METHODS - EVALUATION

TEACHING METHODOLOGY .	Theoretical part teaching with discussion and active participation of students. Power point presentations are made during the course. Laboratory exercises. Individual and group projects.
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	Search scientific literature through HEAL-Link & Google Scholar. Communication with students via e-mail, the course website and the Facebook page.
TEACHING PLAN	<p style="text-align: center;">Activity Semester Workload</p> <p style="text-align: center;">Lectures 35</p> <p style="text-align: center;">Ασκήσεις πράξης</p> <p style="text-align: center;">Εργαστηριακές Ασκήσεις 45</p> <p style="text-align: center;">Συγγραφή εργαστηριακών αναφορών και projects</p> <p style="text-align: center;">Αυτοτελής Μελέτη 45</p> <p style="text-align: center;">Module Total</p> <p style="text-align: center;">(25 h Semester Workload / CU) 125</p>
STUDENT EVALUATION	The final grade of the course is formed by the performance of the students in both the theoretical and the laboratory part, provided that the student has been evaluated with a promotional grade in each part of the course. The evaluation of the course in terms of the theoretical part is formed by a written final examination with development and comparative evaluation of theory elements. The examination of the laboratory part includes laboratory exercises and a written final examination.

5. RECOMMENDED BIBLIOGRAPHY

Συγγράμματα μέσω του συστήματος ΕΥΛΟΞΟΣ

1. Carr, H., & Pomeroy, J. (1992). Fashion Design and Product Development. London: John Wiley & Sons.
2. Gobe, M., & Zyman, S. (2002). Emotional Branding: The New Paradigm for Connecting Brands to People. Allworth.
3. Holt, D. (2004). How Brands become Icons: The Principles of Cultural Branding. Harvard Business School Press.
4. Johnson, M. (2000). Apparel Product Development (2^η εκδ.). Prentice Hall
5. Kahn, K. (2004). The PDMA Handbook of New Product Development (2^η εκδ.). John Wiley & Sons.
6. Lindstrom, M. (2005). Brand Sense: How to build powerful Brands through touch, taste, smell, sight and sound. Kogan Page.
7. Markides, C., & Geroski, P. (2004). Fast Second: How smart companies bypass radical innovation to enter and dominate new markets. Jossey Bass Wiley.
8. Merkel, H., Hildebrandt, A., & Koeman, A. (2007). The Language of Fashion and Design: Creative, Multifarious, Global. Avedition.
9. Roberts, K. (2006). Lovemarks: The Future Beyond Brands (2^η εκδ.). Powerhouse Cultural Entertainment Books.
10. Schmitt, B., & Simonson, A. (1997). Marketing Aesthetics: The Strategic Management of Branding, Identity and Image. Simon & Schuster.
11. Solomon, M., & Rabolt, N. (2002). Consumer Behaviour: In Fashion. New York: Prentice Hall.
12. Tungate, M. (2005). Fashion Brands: Branding Style from Armani to Zara. Kogan Page.
13. Tungate, M. (2009). Luxury World: The Past, Present and Future of Luxury Brands. Kogan Page.
14. Ulrich, K., & Eppinger, S. (2004). Product Design and Development (3^η εκδ.). New York, NY: McGraw-Hill.
15. Wredde, N. (2002). Fusion Branding: How to Forge your Brand for the Future. Accountability Press.

Haute Couture Practices in Fashion

1 GENERAL

SCHOOL	DESIGN SCIENCES		
DEPARTMENT	CREATIVE DESIGN & FASHION		
LEVEL OF STUDIES	<i>Undergraduate</i>		
MODULE CODE	506	SEMESTER	5 ^ο
MODULE TITLE	HAUTE COUTURE PRACTICES IN FASHION		

TEACHING METHODS AND ACTIVITIES		LEARNING HOURS PER WEEK	CREDIT UNITS
Lectures		2	
Practice Assessments			
Studio Work		4	
TOTAL		6	5
MODULE TYPE	Compulsory, Scientific Field Module, Skills Development Specialty		
PREREQUISITE MODULES	Design and Technology of Garment Patterns III (5th semester)		
LANGUAGE OF TEACHING / EXAMS LANGUAGE	Greek		
COURSE OFFERED TO ERASMUS STUDENTS			
MODULE WEB PAGE (URL)			

2 LEARNING OUT COMES

Learning Aims

	<ul style="list-style-type: none"> · Removing the garment from the Fashion market, the course explores through the study of various Haute Couture costume designs, the possibilities of creating original techniques and volumes and their integration in the prototype design process. <p>Upon successful completion of the course the student should:</p> <ul style="list-style-type: none"> • Approach the creation of a suit with a more free and personal style. • be able to create imaginative techniques using unconventional materials. • be able to explain the concept of Conceptual Fashion • know how to choose specialized sewing, cutting and decoration techniques in the creation of the garment .. • have developed a system of integration of Haute Couture techniques in the basic design of standards. • be familiar with clothing creation methodologies such as moulage and origami.
	General Skills
	<ul style="list-style-type: none"> ● Autonomous work ● Skills Development ● Search, analysis and synthesis of data and information, using the necessary technologies ● Adaptation to new situations ● Exercise criticism and self-criticism

3 MODULE CONTENT

Studio course. Through a variety of High Fashion looks & Theater costumes we approach couture techniques & developing ideas in a “costume” spirit. A study on Moulage & Origami, Volumes & Draping through the work of iconic designers.

4 TEACHING AND LEARNING METHODS - EVALUATION

TEACHING METHODOLOGY.	<p>Theoretical (face to face) teaching with presentation / case study.</p> <p>Laboratory Exercises. execution of individual and / or teamwork. Creating a final project.</p>
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	e-learning platform

TEACHING PLAN	<i>Activity</i>	<i>Semester Workload</i>
	Lectures	13
	Εργαστηριακές ασκήσεις	39
	Atelier	39
	Personal work	34
	<i>Module Total</i>	<i>125</i>
	<i>(25 h Semester Workload / CU)</i>	
STUDENT EVALUATION	The final module grades are formed by:	
<i>Assessment Language, Assessment Methods, Formative or Conclusive, Multiple Choice Test, Short Answer Questions, Essay Development Questions, Problem Solving, Written Assignment, R\`eport, Oral Exam, Public Presentation, Artistic Project, Other</i>	<p>The final grade of the course comes from</p> <ul style="list-style-type: none"> • the combination of written work & presentation with • the completion of the work assigned during the atelier work <p>The student will submit a relevant portfolio, written report and presentation of the topic he has chosen to develop.</p>	

5 RECOMMENDED BIBLIOGRAPHY

EUDOXUS System suggested Bibliography

(To be announced soon)

Additional suggested bibliography

- 1 Duburg A., Tol van der R. (2008). *Draping: Art and craftsmanship in fashion*.
- 2 Maynard L. *The Dressmaker's Handbook of Couture Sewing Techniques: Essential Step-by-Step Techniques for Professional Results*
- 3 Shingo Sato, (2011) *draping: art and craftsmanship in fashion design transformational reconstruction*. Center for Pattern Design.
- 4 Canto, C.; Faliu O. (1993). *The History of the Future: Images of the 21st Century*. Flammarion.

Management of Clothing Operation Processes

(1) GENERAL

SCHOOL	Design Sciences		
ACADEMIC UNIT	Creative Design and Clothing		
LEVEL OF STUDIES	Undergraduate		
COURSE CODE	507	SEMESTER	5th
COURSE TITLE	Management of Clothing Operation Processes		
INDEPENDENT TEACHING ACTIVITIES		WEEKLY TEACHING HOURS	CREDITS
	Lectures	2	
	Practice Session	3	
		5	5
COURSE TYPE	Course of Specialised Area		
PREREQUISITE COURSES:	-		
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek		

IS THE COURSE OFFERED TO ERASMUS STUDENTS	Yes in English
COURSE WEBSITE (URL)	e-learning platform (cdc.ihu.gr)

(2) LEARNING OUTCOMES

Learning outcomes

The course learning outcomes, specific knowledge, skills and competences of an appropriate level, which the students will acquire with the successful completion of the course are described.

The Scope of the current course is the development of knowledge and ability for the students to organize and manage operation process of clothing manufacturing systems.

Attending the course the students will:

- have the adequate knowledge on the manufacturing operation processes of several types of textile and clothing manufacturing companies and be able to distinguish the advantages and disadvantages of each operation system
- learn how to organise and manage processes to achieve the ultimate flow of operation for garment manufacturing.
- understand the methodology for work study, method study and work measurement so they can plan the production system and calculate the system's capacity output and the necessary resources for it
- develop the basic knowledge for information systems and applications to control and manage the processes for garment manufacturing operation systems
- learn to develop management quality systems for the operations of textile and garment manufacturing
- learn the certification procedure of a garment manufacturing company with a quality control system as well as to understand the importance and the advantages of running such systems in the garment manufacturing processes.

General Competences

Taking into consideration the general competences that the degree-holder must acquire (as these appear in the Diploma Supplement and appear below), at which of the following does the course aim?

General competences that the degree-holder will acquire:

- Search for, analysis and synthesis of data and information, with the use of the necessary technology.
- Decision making
- Application of knowledge in actual conditions
- Production of creative, inductive and free thinking.
- Teamworking
- Interdisciplinary Project
- Critical thinking

(3) SYLLABUS

Theoretical part:

The evolution of productions systems. Types and definition of production systems. Planning and managing operations in continuous flow production and assembly lines and batch systems. Discontinuous systems order, job and project-based production systems. Introduction into production cells in garment manufacturing.

Definition and analysis of the company subsets as incoming and outgoing logistic, supplier evaluation, operations and operation planning, material handling, machinery maintenance, quality control, quality control charts, marketing and sales etc. Operation management of garment manufacturing and quality control using basic quality tools. Work Study: Method Study, production flow diagrams, development and planning of the operation in production systems. Work measurement and evaluation of total production time (standard minute value), by continuous observation, sampling method and estimation technique. Production capacity planning (demand and production capacity estimating models). Plan making, evaluation and implementation. Required resources for a particular stage and successive stages in production line, balanced systems. General operation strategy planning, by short-term medium and long-term planning. Motivation schemes. Introduction into quality control systems and into basic definition of processes, procedures and work instructions, documents and records, Responsibility, Requirements, traceability, measuring and monitoring, continuous development of quality and total quality systems. Introduction and analysis of the clauses of the quality control systems.

Practice Sessions:

Discussion of case studies, practice in problem solving and application of the theory and methodology presented in the theoretical part of the course using modern technologies. Creating document and record keeping of quality control systems, supplier (supplier evaluation), control and management of resources, operation control and traceability, customer agreements, customer satisfaction measurement and quality system control and evaluation. Introduction into modern technologies and applications of operation management, control and planning in garment production systems (Marker making and cutting, MRP-PLM etc.)

(4) TEACHING and LEARNING METHODS - EVALUATION

<p style="text-align: center;">DELIVERY</p>	<p>Live (Face-to-face presence)</p>											
<p style="text-align: center;">USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY</p>	<p>Use of ICT in teaching, educational learning platform and modern communication (forums, chats, asynchronous and live platforms) with students</p>											
<p style="text-align: center;">TEACHING METHODS</p> <p><i>The manner and methods of teaching are described in detail.</i></p> <p><i>Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, placements, clinical practice, art workshop, interactive teaching, educational visits, project, essay writing, artistic creativity, etc.</i></p> <p><i>The student's study hours for each learning activity are given as well as the hours of non-directed study according to the principles of the ECTS</i></p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th data-bbox="660 546 983 669" style="text-align: center;"><i>Activity</i></th> <th data-bbox="983 546 1307 669" style="text-align: center;"><i>Semester workload</i></th> </tr> </thead> <tbody> <tr> <td data-bbox="660 669 983 826">Lectures</td> <td data-bbox="983 669 1307 826" style="text-align: center;">50</td> </tr> <tr> <td data-bbox="660 826 983 983">Practical Sessions</td> <td data-bbox="983 826 1307 983" style="text-align: center;">35</td> </tr> <tr> <td data-bbox="660 983 983 1106">Self-study</td> <td data-bbox="983 983 1307 1106" style="text-align: center;">40</td> </tr> <tr> <td data-bbox="660 1106 983 1263">Course total</td> <td data-bbox="983 1106 1307 1263" style="text-align: center;">150</td> </tr> </tbody> </table>		<i>Activity</i>	<i>Semester workload</i>	Lectures	50	Practical Sessions	35	Self-study	40	Course total	150
<i>Activity</i>	<i>Semester workload</i>											
Lectures	50											
Practical Sessions	35											
Self-study	40											
Course total	150											

**STUDENT PERFORMANCE
EVALUATION**

Description of the evaluation procedure

Language of evaluation, methods of evaluation, summative or conclusive, multiple choice questionnaires, short-answer questions, open-ended questions, problem solving, written work, essay/report, oral examination, public presentation, laboratory work, clinical examination of patient, art interpretation, other

Specifically-defined evaluation criteria are given, and if and where they are accessible to students.

Language of the evaluation methods: Greek

In theory

Written final exam comprising:

- Short-answer questions
- Combination judgment questions

- In the Practical sessions

- Discussion and role simulation

- Report making comprising:

short answers to questions

judgment questions

Problem solving

(5) ATTACHED BIBLIOGRAPHY

Greek and Other Languages

1. Δερβιτσιώτης, Κ., Διοίκηση Παραγωγής, 1999
2. Ψωινός, Δ., Οργάνωση και Διοίκηση Εργοστασίων, 1990
3. Ψωινός, Α., (1997), «Ποσοτική Ανάλυση», Τόμος Π, Ζήτη
4. Carr, H. and Latham, B., Technology of Clothing Manufacture,
5. 2000 Chuter, A., Introduction to Clothing Production Management, 1999
6. Stevenson W., Production Operation Management, 1998 Martinich J., Production and Operations Management, 1998
7. Shim, J., Siegel J., (2002), «Διοίκηση Εκμετάλλευσης, "Operation Management", Κλειδάριθμος
8. Παππής, Κ., (1993), «Διοίκηση Παραγωγής, Ο Σχεδιασμός Παραγωγικών Συστημάτων», Σταμούλης
9. Τσιότρας, Γ., (1995), «Διοίκηση Παραγωγής», Β' τόμος, εκδόσεις Μπένου
10. Παπαδημητρίου, Σ., Σχινάς, Ο., (2002), «Εισαγωγή στα Logistics», Σταμούλης
11. James, P., (1998), «Μάνατζμεντ Ολικής Ποιότητας, Μια Εισαγωγή», Κλειδάριθμος
12. Σπανός, Α., (1993), «Ολική Ποιότητα», Γαλαίος
13. Γρηγορούδης, Β., Σίσκος, Γ., (2000), «Ποιότητα Υπηρεσιών Και Μέτρηση Ικανοποίησης του Πελάτη», εκδόσεις Νέων Τεχνολογιών
14. Verzuh E., (2002), «Εισαγωγή στη Διαχείριση Έργων (Project Management)», Κλειδάριθμος Burke, K., (2002), «Project Management, Τεχνικές Σχεδιασμού και Ελέγχου», Κριτική
15. Κέφης Β.Ν. «Διοίκηση Ολικής Ποιότητας, Θεωρία και Πρότυπα» εκδόσεις Κριτική 2014

ΕΤΑΙΡΙΚΕΣ ΑΓΟΡΕΣ ΣΤΟ ΛΙΑΝΙΚΟ ΕΜΠΟΡΙΟ

1. ΓΕΝΙΚΑ

ΣΧΟΛΗ	ΕΠΙΣΤΗΜΩΝ ΣΧΕΔΙΑΣΜΟΥ		
ΤΜΗΜΑ	ΔΗΜΙΟΥΡΓΙΚΟΥ ΣΧΕΔΙΑΣΜΟΥ & ΕΝΔΥΣΗΣ		
ΕΠΙΠΕΔΟ ΣΠΟΥΔΩΝ	Προπτυχιακό		
ΚΩΔΙΚΟΣ ΜΑΘΗΜΑΤΟΣ	508	ΕΞΑΜΗΝΟ ΣΠΟΥΔΩΝ	5 ^ο
ΤΙΤΛΟΣ ΜΑΘΗΜΑΤΟΣ	ΕΤΑΙΡΙΚΕΣ ΑΓΟΡΕΣ ΣΤΟ ΛΙΑΝΙΚΟ ΕΜΠΟΡΙΟ Corporate Purchases in Retail		

ΑΥΤΟΤΕΛΕΙΣ ΔΙΔΑΚΤΙΚΕΣ ΔΡΑΣΤΗΡΙΟΤΗΤΕΣ	ΕΒΔΟΜΑΔΙΑΙΕΣ ΩΡΕΣ ΔΙΔΑΣΚΑΛΙΑΣ	ΠΙΣΤΩΤΙΚΕ Σ ΜΟΝΑΔΕΣ
Διαλέξεις	3	5
Εργαστηριακές Ασκήσεις	2	
ΣΥΝΟΛΟ	5	
ΤΥΠΟΣ ΜΑΘΗΜΑΤΟΣ	Μάθημα Επιλογής Υποχρεωτικό, Μάθημα Επιστημονικής Περιοχής, Μάθημα Ειδικότητας	
ΠΡΟΑΠΑΙΤΟΥΜΕΝΑ ΜΑΘΗΜΑΤΑ:		
ΓΛΩΣΣΑ ΔΙΔΑΣΚΑΛΙΑΣ και ΕΞΕΤΑΣΕΩΝ:	Ελληνική	
ΤΟ ΜΑΘΗΜΑ ΠΡΟΣΦΕΡΕΤΑΙ ΣΕ ΦΟΙΤΗΤΕΣ ERASMUS	ΝΑΙ (στην Αγγλική)	
ΗΛΕΚΤΡΟΝΙΚΗ ΣΕΛΙΔΑ ΜΑΘΗΜΑΤΟΣ (URL)	http://moda.teicm.gr/5204552B.el.aspx	

1. ΜΑΘΗΣΙΑΚΑ ΑΠΟΤΕΛΕΣΜΑΤΑ

Μαθησιακά Αποτελέσματα
<ul style="list-style-type: none"> • Το μάθημα αποσκοπεί να καταστήσει τους φοιτητές ικανούς να αντιληφθούν το περιβάλλον του διεθνούς λιανικού εμπορίου ένδυσης και να εργαστούν σε αυτό, εφαρμόζοντας τις αρχές των πωλήσεων, των προμηθειών και του merchandising. • Παρακολούθηση των στρατηγικών ανάπτυξης του διεθνούς λιανικού εμπορίου. • Περιγραφή της διαδικασίας λιανικής πώλησης με παραδοσιακές (κατάστημα λιανικής με φυσική παρουσία) ή μη μεθόδους (π.χ. ηλεκτρονικό κατάστημα). • Κατανόηση της εργασίας του αγοραστή ειδών μόδας, με κύρια στοιχεία τον αγοραστικό κύκλο, τον προγραμματισμό της σειράς, τις προμήθειες και το merchandising.
Γενικές Ικανότητες
<ul style="list-style-type: none"> • Αναζήτηση, ανάλυση και σύνθεση δεδομένων και πληροφοριών • Σεβασμός στη διαφορετικότητα και στην πολυπολιτισμικότητα • Σεβασμός στο φυσικό περιβάλλον • Προσαρμογή σε νέες καταστάσεις • Λήψη αποφάσεων • Αυτόνομη εργασία • Εργασία σε διεπιστημονικό περιβάλλον • Εργασία σε διεθνές περιβάλλον • Επίδειξη κοινωνικής, επαγγελματικής και ηθικής υπευθυνότητας και ευαισθησίας σε θέματα φύλου • Άσκηση κριτικής και αυτοκριτικής • Προαγωγή της ελεύθερης, δημιουργικής και επαγωγικής σκέψης

1. ΠΕΡΙΕΧΟΜΕΝΟ ΜΑΘΗΜΑΤΟΣ

- Εισαγωγή στο περιβάλλον του λιανικού εμπορίου ένδυσης. Δημογραφικά χαρακτηριστικά των καταναλωτών και καταναλωτικές τάσεις. Τεχνικές του λιανικού εμπορίου και παράγοντες που επηρεάζουν το σύγχρονο λιανικό εμπόριο. Πολιτικές πωλήσεων της βιομηχανίας ένδυσης. Διεθνοποίηση του λιανικού εμπορίου ένδυσης.
- Αρχές Πωλήσεων: Διαδικασία πώλησης επιχείρησης προς επιχείρηση (b2b) και επιχείρησης προς καταναλωτή (b2c). Στοιχεία επικοινωνίας αγοραστών-πωλητών. Νομικά και ηθικά θέματα των πωλήσεων. Ψυχολογία των πωλήσεων ενδυμάτων. Άμεση πώληση. Δικαιόχρηση (franchising) στην ένδυση.
- Ο Αγοραστής Ειδών Ένδυσης στο Λιανικό Εμπόριο: Οργανωτική δομή στις προμήθειες λιανικής, εσωτερικές και εξωτερικές πηγές της αγοραστικής πληροφόρησης, βασικές αρχές των επιτυχημένων προμηθειών και ο ρόλος του αγοραστή στον προγραμματισμό των αγορών ένδυσης. Αξιολόγηση και αγορά από εγχώριες ή ξένες αγορές. Εισαγωγή στο Merchandising: Ο αγοραστικός κύκλος. Χρονοδιαγράμματα. Χτίσιμο της συλλογής και της γκάμας ένδυσης.
- Μελλοντικές τάσεις στο ηλεκτρονικό εμπόριο λιανικής (e-tailing) στην ένδυση.

1. ΔΙΔΑΚΤΙΚΕΣ και ΜΑΘΗΣΙΑΚΕΣ ΜΕΘΟΔΟΙ - ΑΞΙΟΛΟΓΗΣΗ

ΤΡΟΠΟΣ ΠΑΡΑΔΟΣΗΣ	Θεωρητική από έδρας διδασκαλία με συζήτηση και ενεργή συμμετοχή των φοιτητών. Κατά τη διάρκεια του μαθήματος γίνονται παρουσιάσεις σε power point.
ΧΡΗΣΗ ΤΕΧΝΟΛΟΓΙΩΝ ΠΛΗΡΟΦΟΡΙΑΣ ΚΑΙ ΕΠΙΚΟΙΝΩΝΙΩΝ	Αναζήτηση επιστημονικής βιβλιογραφίας μέσω HEAL-Link & Google Scholar. Επικοινωνία με φοιτητές μέσω e-mail, της ιστοσελίδας του μαθήματος και της σελ. στο Facebook.
ΟΡΓΑΝΩΣΗ ΔΙΔΑΣΚΑΛΙΑΣ	<p><i>Δραστηριότητα Φόρτος Εργασίας Εξαμήνου</i></p> <p>Διαλέξεις Ασκήσεις πράξης Εργαστηριακές Ασκήσεις Συγγραφή εργαστηριακών αναφορών και projects Αυτοτελής Μελέτη</p> <p>Σύνολο Μαθήματος (25 ώρες φόρτου ανά ΔΜ) 125</p>
ΑΞΙΟΛΟΓΗΣΗ ΦΟΙΤΗΤΩΝ	<p>I. Γραπτή τελική εξέταση (70%) που περιλαμβάνει ανάπτυξη και συγκριτική αξιολόγηση στοιχείων θεωρίας με έμφαση στον κλάδο της ένδυσης</p> <p>II. Ατομική Εργασία (30%) που αφορά στη στρατηγική λιανικού εμπορίου των επιχειρήσεων ένδυσης</p>

1. ΣΥΝΙΣΤΩΜΕΝΗ ΒΙΒΛΙΟΓΡΑΦΙΑ

Συγγράμματα μέσω του συστήματος ΕΥΔΟΞΟΣ
 Παπαβασιλείου Ν. – Μπάλτας Γ. "Μάρκετινγκ Λιανικού & Χονδρικού Εμπορίου" (2003) Rosili Εκδοτική.
Συμπληρωματική προτεινόμενη βιβλιογραφία
 Hebrer, M. "Fashion Buying and Merchandising: From mass-market to luxury retail" (2015) CreateSpace Independent Publishing Platform
 Tepper, B. "Mathematics for Retail Buying", Bloomsbury Academic USA; 7th ed. edition (2015)

1. ΓΕΝΙΚΑ

SCHOOL	DESIGN SCIENCES		
DEPARTMENT	CREATIVE DESIGN AND CLOTHING		
LEVEL OF STUDIES	Undergraduate		
COURSE CODE	601	SEMESTER	6 th
COURSE TITLE	COMPUTER AIDED DESIGN SYSTEMS FOR GARMENT PROTOTYPING		
TEACHING METHODS AND ACTIVITIES		LEARNING HOURS PER WEEK	CREDIT UNITS
	Lectures	2	5
	Lab exercises	3	
	TOTAL	5	
ΤΥΠΟΣ ΜΑΘΗΜΑΤΟΣ	Special Infrastructure, Compulsory (Scientific Area)		
ΠΡΟΑΠΑΙΤΟΥΜΕΝΑ ΜΑΘΗΜΑΤΑ:			
ΓΛΩΣΣΑ ΔΙΔΑΣΚΑΛΙΑΣ και ΕΞΕΤΑΣΕΩΝ:	Ελληνική		
ΤΟ ΜΑΘΗΜΑ ΠΡΟΣΦΕΡΕΤΑΙ ΣΕ ΦΟΙΤΗΤΕΣ ERASMUS	YES (in English)		
ΗΛΕΚΤΡΟΝΙΚΗ ΣΕΛΙΔΑ ΜΑΘΗΜΑΤΟΣ (URL)			

1. LEARNING OUTCOMES

Learning Outcomes

The fashion industry is the most specialized labor-dependent industry, and any cost savings through new computer technology design (CAD) have become a precondition for obtaining competitive advantage. CAD (Computer Aided Design) systems enable quick design creation and customization as quickly as possible without reducing creativity and provide better communication and integration between product development systems. They have helped to reduce production times, improve the accuracy and availability of clothing products in retail stores much closer to the time consumers need. In the laboratory part of the course, students are familiar with the use of appropriate software in conjunction with the assignment of real problem resolution (development of patron models with examples from industry). Aware of the whole process of developing the original/sample within a clothing business, students learn to understand and transform design specifications into technical requirements and requirements for production.

After attending the course, students should:

- Know and understand the process of designing and developing a garment collection for the fashion industry.
- They can analyze a sketch and/or model from the design side and the technical parameters for its construction so that they can convert it into a digital prototype
- They can develop computer software application and hardware device management capabilities to create clothing models
- They can accurately identify concepts relevant to the subject, such as CAD/CAM, PGS, PDS, Marker, 3D, simulation of garments and clothing models, 3D body scanners
- Be able to develop a design tech pack with all the information necessary to produce a model/garment collection.
- Can classify and archive digital patterns and technical documents

General Skills

- Putting knowledge into practice
- Searching, analyzing and synthesizing data and information using the necessary technologies
- Stand-alone work
- Group Work
- Promoting free, creative and inductive thinking

1. COURSE CONTENT

- **Prototype development process in the context of collection development for the fashion industry**

The Fashion Cycle, the Consumer, the Collections (trends, forecasting, job planning, prototyping, production)
 The importance of the draft specifications for production
 Design analysis based on technical construction parameters
 Use basic patron standards and convert them to the desired model
 Future trends

- **Introduction in digital design of clothing prototypes**

Basic principles of the development of clothing patterns
 Clothing balance
 Size tables
 Grading
 Electronic Systems Made-to-measure
 Major technological developments in the construction of pattern
 Applications/deployments in CAD clothing systems
 Future trends
 Sources of further information and advice

- **Block Editing for prototype development in CAD systems**

Digitizing
 Insert Points, Names, Grain Line, Cut Line, Edit Curves, Cut, Measures, Draw Lines, Motifs,
 Purify, Interlines, Insert Seams
 Darts, Pleats,, Gathers
 Pattern analysis to determine grading
 Extraction of grading rules from dimensional and technical specifications
 Calculate grading rules
 Apply grading rules
 Control
 Save
 Create a model for a cutting plan

1. TEACHING AND LEARNING METHODS - EVALUATION

TEACHING METHODOLOGE.	<p>Face to face theoretical teaching (lectures, discussion) with students' active participation. Powerpoint presentations.</p> <p>Laboratory exercises. Use of commercial and specialized software for clothing pattern development and grading.</p>														
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	<p>Specialized software. Self-assessment quizzes. Electronic communication with students via email, webpage and RSS feeds.</p>														
TEACHING PLAN	<table style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: left;"><i>Activity</i></th> <th style="text-align: left;"><i>Semester Workload</i></th> </tr> </thead> <tbody> <tr> <td>Lectures</td> <td>26</td> </tr> <tr> <td>Exercises</td> <td>0</td> </tr> <tr> <td>Laboratory Exercises</td> <td>14</td> </tr> <tr> <td>Writing laboratory reports and projects</td> <td>0</td> </tr> <tr> <td>Individual Study</td> <td>85</td> </tr> <tr> <td>Total</td> <td>125</td> </tr> </tbody> </table>	<i>Activity</i>	<i>Semester Workload</i>	Lectures	26	Exercises	0	Laboratory Exercises	14	Writing laboratory reports and projects	0	Individual Study	85	Total	125
<i>Activity</i>	<i>Semester Workload</i>														
Lectures	26														
Exercises	0														
Laboratory Exercises	14														
Writing laboratory reports and projects	0														
Individual Study	85														
Total	125														

STUDENT EVALUATION	<p>The final grade of the course shall be determined by the student's performance in both the theoretical and the laboratory parts, provided that the student has been assessed with a promotional grade in each part of the course.</p> <p>The evaluation of the course as regards the theoretical part shall be based on a written final examination.</p> <p>. The written final examination of the theoretical part shall include:</p> <ul style="list-style-type: none"> - Multi-Select Questions - Troubleshoot problems in applying acquired knowledge. - Benchmarking of theory data. <p>2. The examination of laboratory exercises shall include the evaluation of laboratory skills acquired through examination of laboratory exercises, where laboratory equipment is used.</p>
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1. RECOMMENDED BIBLIOGRAPHY

Συγγράμματα μέσω του συστήματος ΕΥΔΟΞΟΣ

Μπιλάλης, Ν., Μαραβελάκης, Ε., Συστήματα CAD/CAM και τρισδιάστατη μοντελοποίηση - Νέα αναθεωρημένη έκδοση, Κωδικός Βιβλίου στον Εύδοξο: 41955474, Εκδόσεις Κριτική

Συγγράμματα που διανέμονται μέσω του Πανεπιστημίου ή της ηλεκτρονικής σελίδας του μαθήματος

Ε.Παπαχρήστου, Ηλεκτρονικά Συστήματα Σχεδιασμού Προτύπων.- Σημειώσεις και διαφάνειες Θεωρίας, Κιλκίς.

Ε.Παπαχρήστου, Ηλεκτρονικά Συστήματα Σχεδιασμού Προτύπων- Εργαστηριακές ασκήσεις, Κιλκίς.

Συμπληρωματική προτεινόμενη βιβλιογραφία

Wang, B., & Ha-Brookshire, J. E. (2018). Exploration of digital competency requirements within the fashion supply chain with an anticipation of industry 4.0. *International Journal of Fashion Design, Technology and Education*, 1-10.

Beazley, A and Bond, T (2003) *Computer-Aided Pattern Design and Product Development*, Blackwell Publishing, Oxford.

Bond, T (2000) An overview of technological developments in CAD/CAM. *Journal of Fashion Marketing and Management*, 4 (2), 188–190.

Bond, T and Agrafiotis, K (2000) Modularisation and mass customisation. How companies will compete and co-operate in the next millennium. In 80th World Conference of the Textile Institute, Manchester, UK, 17 April.

Burke, S., Sinclair, R., (2015), *Computer-Aided Design (CAD) and Computer-Aided Manufacturing (CAM) of Apparel and other textile products* pp.671-703 in *Textiles and Fashion-Materials , Design and Technology*, Woodhead Publishing

Carr, H and Latham, B (2000) *Technology of Clothing Manufacture*, 3rd edn, Blackwell Science, Oxford.

Ma, G, Otieno, R, Bond, T and Vronti, P (2004) Lost and found on the virtual catwalk: A comparison of experiences on provision of virtual fit and 3D testing of fit. Paper presented at the Eurasia-TEX Conference on 3D Body Scanning and Virtual Try-on Systems, Athens, 24–25 November.

- Polypattern www.polytropon.com
- Crea Solutions <https://www.creasolution.it/>
- Tukatech <https://tukatech.com/>
- Optitex. <https://optitex.com/>
- Gerber Technology. <http://www.gerbertechnology.com>
- Lectra. <http://www.Lectra.com>
- Textile/Clothing Technology Corporation [TC]2. <http://www.techexchange.com>

MODERN ART & DESIGN

1. GENERAL

SCHOOL	DESIGN SCIENCES		
DEPARTMENT	CREATIVE DESIGN & FASHION		
LEVEL OF STUDIES	<i>Undergraduate</i>		
MODULE CODE	602		6ο
MODULE TITLE	MODERN ART & DESIGN		
TEACHING METHODS AND ACTIVITIES	LEARNING HOURS PER WEEK	CREDIT UNITS	
Theory, Lectures, Practice Assessments, Studio Work	4	5	
TOTAL	4		
MODULE TYPE	Μάθημα Επιστημονικής Περιοχής		
PREREQUISITE MODULES			
LANGUAGE OF TEACHING / EXAMS LANGUAGE	GREEK		
COURSE OFFERED TO ERASMUS STUDENTS	Yes (in english language)		
MODULE WEB PAGE (URL)			

1. ΜΑΘΗΣΙΑΚΑ ΑΠΟΤΕΛΕΣΜΑΤΑ

Learning Aims

Upon successful completion of the course students should:

- To have the necessary knowledge to understand basic concepts of aesthetics, contemporary art, design and fashion
- Be able to understand the importance of reworking and evolving in the light of the modified original idea by himself and others as a result of discussion, criticism and influence
- To express and communicate verbally, using appropriate terminology

General Skills

- Independent work
- Skills Development
- Research, analysis and synthesis of data and information, using new media technologies
- Adaptation to alternative situations and challenges
- Exercise criticism and self-criticism

3. MODULE CONTENT

MODULE CONTENT

The understanding of concepts, the development of ideas with potential in modernity and postmodernity through a series of presentations that improve - evolve at regular intervals, with the theme of contemporary art and design, contemporary art and fashion. Movements of contemporary art of the 20th century until today. What is happening in all these fields today in a rapidly changing society. Project, research, topic elaboration, laboratory experimental exercises-approaches, final topic performance and presentation, with theoretical support.

4. TEACHING AND LEARNING METHODS - EVALUATION

TEACHING METHODOLOGY	<p>Theoretical teaching based on visual presentation. Powerpoint presentations and case-studies are presented during the course.</p> <p>Studio Exercises. Presentation and implementation of individual/team work. Innovative creation of artefact prototypes.</p>
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	<p>Communication with students via e-mail, module website and interaction within a closed social network group.</p>

TEACHING PLAN	<p>Activity Semester Workload</p> <p>Lectures 50 Studio work 40 Creativity 25 eclass 10</p> <p>Module Total</p> <p>(25 h Semester Workload / CU) 125</p>
STUDENT EVALUATION	<p>The final module grades are formed by:</p> <ul style="list-style-type: none"> · A written assignment & presentation & <p>A project work derived from the Studio work that follows the theoretical assignment. Students will submit a relevant portfolio (written essay, concept analysis, colors, special techniques and design prototypes that they wish to explore and develop).</p>

5. RECOMMENDED BIBLIOGRAPHY

<p>Προτεινόμενη Βιβλιογραφία:</p> <p>Μόδα και σύγχρονη τέχνη, Δημοσθένης Δαβέτας, 2011, εκδόσεις Ευρασία</p> <p>Νέα Ανθρωπολογία και Μοντέρνα Τέχνη, Β. Φιορεβάντες (επιμέλεια), Ζήτη, 2014, Αθήνα</p> <p>Τέχνη και Οπτική Αντίληψη, R.Arntheim, Εκδόσεις Θεμέλιο ΕΠΕ, 2005, Αθήνα</p> <p>Η Μοντέρνα Τέχνη, Argan, G. Carlo, Ίδρυμα Τεχνολογίας και Έρευνας-Πανεπιστημιακές Εκδόσεις, 2008, Ηράκλειο</p> <p>Οι πρωτοπορίες της Τέχνης του Εικοστού Αιώνα, Μάριο Ντε Μικέλι, Βιβλιόπολις, Αθήνα</p> <p>Για το πνευματικό στη Τέχνη, Β. Καντίνσκι, Δουβίτσας και ΣΙΑ ΕΕ, 2010, Αθήνα</p> <p>- Συναφή επιστημονικά περιοδικά:</p>
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ΕΙΚΟΝΙΚΟ ΠΡΩΤΟΤΥΠΟ

1. ΓΕΝΙΚΑ

SCHOOL	DESIGN SCIENCES		
DEPARTMENT	CREATIVE DESIGN AND CLOTHING		
LEVEL OF STUDIES	Undergraduate		
COURSE CODE	603	SEMESTER	6 th
COURSE TITLE	VIRTUAL PROTOTYPE		
TEACHING METHODS AND ACTIVITIES	LEARNING HOURS PER WEEK	CREDIT UNITS	
Lectures	2	5	
Lab exercises	2		

TOTAL	4
ΤΥΠΟΣ ΜΑΘΗΜΑΤΟΣ	Special Infrastructure, Compulsory (Scientific Area)
ΠΡΟΑΠΑΙΤΟΥΜΕΝΑ ΜΑΘΗΜΑΤΑ:	
ΓΛΩΣΣΑ ΔΙΔΑΣΚΑΛΙΑΣ και ΕΞΕΤΑΣΕΩΝ:	Ελληνική
ΤΟ ΜΑΘΗΜΑ ΠΡΟΣΦΕΡΕΤΑΙ ΣΕ ΦΟΙΤΗΤΕΣ ERASMUS	YES (in English)
ΗΛΕΚΤΡΟΝΙΚΗ ΣΕΛΙΔΑ ΜΑΘΗΜΑΤΟΣ (URL)	

1. LEARNING OUTCOMES

Learning Outcomes
<p>The fashion industry is heading towards an ever-accelerating fashion that delivers its products more quickly, cheaply and more than ever before. This requirement results in the search for new techniques which will provide the product development process. The course aims to study and accept virtual prototype as a means of communicating and shortening product development time without problems, reducing the technological gap and production time, while increasing the creativity and prompt visualization of clothing and its application.</p> <p>In the laboratory part of the course, students are familiar with the use of appropriate software for visual and virtual modeling of the clothing as well as the appropriate techniques for creating, developing, editing and exporting virtual original files in different interfaces.</p> <p>After attending the course, students should:</p> <ul style="list-style-type: none"> • Know and understand the basic principles of design in three dimensions. • Know and understand the basic principles of functioning of modern technology solutions for the virtual modeling of clothing. • Edit the dimensions and aesthetic characteristics of virtual avatars to suit the virtual patterns • Analyze and design basic clothing prototypes • Simulate basic techniques of stitching pieces of clothing to create the virtual original • Understand the importance of the right mechanical configuration of fabric materials, accessories and other forms on the virtual model • Recognize the challenges, advantages and disadvantages of adopting the 3D virtual original in clothing • Understand the change in the traditional clothing development process through the virtual prototype and the way it helps the mass personalization of clothing • Develop the right skills already required by the modern clothing product development department in virtual environments • Be able to apply this knowledge to actual case studies and application exercises.
General Skills
<ul style="list-style-type: none"> - Searching, analyzing and synthesizing data and information using the necessary technologies. - Group Work. - Project Planning and Management. - Promoting free, creative and inductive thinking.

1. COURSE CONTENT

- **Digital Transformation of the clothing industry**

The fashion between industrial revolutions
Term I 4.0
Fashion Integration Model in Industry 4.0
Ingredients & Principles

- **Digital Prototype in New Dimension η**

Traditional method of a digital clothing sample development
Problems facing the industry today
Approach to the problem
Basic differences between 2D and 3D processes
Implementation of 3D and upcoming changes in the traditional process
3D visualization and 3D prototyping
The future of the natural original
Natural or virtual prototype?
The future of 2D CAD systems

- **Virtual Prototype as part of Fashion Product Development**

Advantages/Benefits
Disadvantages
Objectives
Difficulties and obstacles in adopting 3D technology in the creative clothing process
Challenges
Optical Digitization of Materials
Need for total integration
Anthropoid (Avatars)
Personalize clothes through the virtual original
Interdisciplinary cooperation at all stages of the development process
Necessary skills
Designer of the future
The Future Expert
Case studies (successes/failures)

- **Presentation of popular software in creating a virtual prototype**

V-Stichter/Lotta
Clo3D
Tuka3D
Audaces4D
Optitex3D
Modaris3D

- **Future Trends**

Smart Factory & Micro Factory
Technologies VR/XR/AR & enhancement of virtual prototype
Digital/Virtual Mannequins-Models
Virtual Prototype as part of a new sustainable supply value chain

1. TEACHING AND LEARNING METHODS - EVALUATION

TEACHING METHODOLOGY	Lecturing with discussion and students' active participation. During class, share of powerpoint presentation. Use printing equipment for direct printing on clothing and specialized software. Laboratory measurements
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USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	Self-evaluation e-exercises (Quizes) Communication via e-mail, course moodle and RSS feeds.												
TEACHING PLAN	<table border="0"> <thead> <tr> <th style="text-align: left;"><i>Activity</i></th> <th style="text-align: right;"><i>Semester Workload</i></th> </tr> </thead> <tbody> <tr> <td>Lectures</td> <td style="text-align: right;">26</td> </tr> <tr> <td>Writing lab reports and projects</td> <td style="text-align: right;">14</td> </tr> <tr> <td>Self study</td> <td style="text-align: right;">85</td> </tr> <tr> <td colspan="2"><hr/></td> </tr> <tr> <td>Total (25 ώρες φόρτου ανά ΔΜ)</td> <td style="text-align: right;">125</td> </tr> </tbody> </table>	<i>Activity</i>	<i>Semester Workload</i>	Lectures	26	Writing lab reports and projects	14	Self study	85	<hr/>		Total (25 ώρες φόρτου ανά ΔΜ)	125
<i>Activity</i>	<i>Semester Workload</i>												
Lectures	26												
Writing lab reports and projects	14												
Self study	85												
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Total (25 ώρες φόρτου ανά ΔΜ)	125												
STUDENTS EVALUATION	<p>The final grade of the course shall be determined by the student's performance in both the theoretical and the laboratory parts, provided that the student has been assessed with a promotional grade in each part of the course.</p> <p>The evaluation of the course as regards the theoretical part shall be based on a written final examination.</p> <p>1. The written final examination of the theoretical part shall include:</p> <ul style="list-style-type: none"> - Multi-Select Questions - Troubleshoot problems in applying acquired knowledge. - Benchmarking of theory data. <p>2. The examination of laboratory exercises shall include the evaluation of laboratory skills acquired through examination of laboratory exercises, where laboratory equipment is used. Projects may also be contracted out with the industry, in collective or individual stages</p>												

1. RECOMMENDED BIBLIOGRAPHY

<p>Συγγράμματα μέσω του συστήματος ΕΥΔΟΞΟΣ</p> <p>Μπιλάλης, Ν., Μαραβελάκης, Ε., Συστήματα CAD/CAM και τρισδιάστατη μοντελοποίηση - Νέα αναθεωρημένη έκδοση, Κωδικός Βιβλίου στον Εύδοξο: 41955474, Εκδόσεις Κριτική</p> <p>Συγγράμματα που διανέμονται μέσω του Πανεπιστημίου ή της ηλεκτρονικής σελίδας του μαθήματος</p> <p>Ε.Παπαχρήστου, Εικονικό Πρωτότυπο στην Ένδυση- Σημειώσεις και διαφάνειες Θεωρίας, Κιλκίς.</p> <p>Ε.Παπαχρήστου, Εικονικό Πρωτότυπο στην Ένδυση- Εργαστηριακές ασκήσεις, Κιλκίς.</p> <p>Συμπληρωματική προτεινόμενη βιβλιογραφία</p> <p>Journal of Fashion technology & Textile Engineering Journal of Textile Science & Engineering Journal of Textile Engineering & Fashion Technology www.browzwear.com, www.clo.com, www.tukatech.com www.audaces.com</p>
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Quality Control 2

1. General

SCHOOL	Design Sciences
ACADEMIC UNIT	Creative Design and Clothing

LEVEL OF STUDIES	Undergraduate		
COURSE CODE	604	SEMESTER	5th
COURSE TITLE	Quality Control 2		
INDEPENDENT TEACHING ACTIVITIES		WEEKLY TEACHING HOURS	CREDITS
	Lectures	2	
	Laboratory	2	
		5	5
COURSE TYPE	Course of Specialised Area		
PREREQUISITE COURSES:	-		
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek		
IS THE COURSE OFFERED TO ERASMUS STUDENTS	Yes in English		
COURSE WEBSITE (URL)	e-learning platform (cdc.ihu.gr) http://moda.teicm.gr/407E57FB.el.aspx		

1. LEARNING OUTCOMES

Learning outcomes
<i>The course learning outcomes, specific knowledge, skills and competences of an appropriate level, which the students will acquire with the successful completion of the course are described.</i>
<p>The course intends to develop advanced knowledge about the importance of quality of textile products which are used in garment making. Introduction into the theory of sampling and statistical quality control, quality control diagrams and acceptance plans. analysis of the interrelation of quality control with the modern textile quality management systems which include environmental and sustainability issues, fair trade etc. The students can develop the knowledge and understanding of the science of textile structure and several important properties of fabrics for garments. In addition, an analysis on the defects seen in fibres, yarns and fabrics, and their periodical occurrence explains the cause of their origin and the potential problems in the resulting garment quality.</p> <p>After the successful completion of the course the students are able to:</p> <ul style="list-style-type: none"> • Develop knowledge about the evaluation of the technical specifications of the garments and the importance which the raw materials have in the garment production and the final quality. • Develop the basic knowledge of specific textile quality management systems which include environmental and sustainability issues, fair trade etc. in the integrity of the chain of textile manufacturing. • Are in a position to recognize, analyse defects in garments and in fabrics and understand their cause. Based on their technological knowledge they can communicate with the supplier for a collaborative solution to the problem.
General Competences

Taking into consideration the general competences that the degree-holder must acquire (as these appear in the Diploma Supplement and appear below), at which of the following does the course aim?

General competences that the degree-holder will acquire:

- **Application of knowledge in actual conditions**
- **Production of creative, inductive and free thinking.**
- **Private study**
- **Teamworking**
- **Critical thinking**

1. Course Content

Theoretical part:

Introduction into their requirements of quality control. The cost of quality and the statistical quality control by sampling. The concept of random sampling technic and the use of the statistical hypothesis in quality control and production. The tools of the hypothesis testing, quality charts and acceptance plans in quality control of fabric specifications. Critical points of implementation of quality control in garment manufacturing. The analysis of the basic concepts of the quality management systems and system requirements. The analysis of the specific textile quality management systems EcoLabel, Oekotex 100, GOTS (Global Organic Cotton), Cotton made in Africa and Sedex.

The mechanical deformations and the elastic behavior of materials. Bending, shearing, torsional deformation and the phenomenon of buckling during stitching of garments. The importance and determination of the rigidity and formability of fabrics in garment manufacturing. The influence of elastic behavior in the determination of bending length and drape coefficient of fabrics. The determination of tear resistance using the ballistic pendulum and bursting strength of fabrics. The fabric and garment stability during domestic laundering.

The physicochemical mechanism of the fabric behaviour during washing, humidity regain and thermal stability. The analysis of the phenomenon of the fabric and garment twist during washing as well as treatments for controlling body twist. The seam strength testing and the seam slippage of yarns. The quality and care label usage. The lightfastness of fabrics. The determination of the flammability of fabrics. The needle penetration force through fabric and sewability of fabrics. The defects in fibres, yarns and problems caused by their periodical occurrence in fabrics and resulting garment quality. The analysis of the most frequent woven and knitted fabric faults. The problems and defects during cutting and stitching of garments.

Practice Sessions:

The practice of quality control procedure for the testing of quality characteristics of the fabrics include the following:

- Fabric fault evaluation systems and quality acceptance plans
- Determination of bending rigidity through bending length and calculation of formability of fabric
- Determination of the drape of the fabric by Cusick
- Determination of the tear resistance by the ballistic method of Elmendorf
- Determination of the bursting strength of fabric
- Lightfastness of fabric and garment
- Dimensional stability of the fabric during domestic laundering
- Dimensional stability and change in the appearance of garments (body twist)
- Seam strength and seam slippage
- Quality and care labels
- Defect in fibers and their periodical occurrence
- Defects in woven fabrics and evaluation systems
- Main defects of needed fabrics and their cause
- Problems and defects during cutting and stitching of garments

- Determination of the needle penetration force of the fabric and its sewability

1. TEACHING and LEARNING METHODS - EVALUATION

DELIVERY	Live (Face-to-face presence)										
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY	Use of ICT in teaching, educational learning platform and modern communication (forums, chats, asynchronous and live platforms) with students. Use of textile laboratory and textile testing apparatus										
TEACHING METHODS <i>The manner and methods of teaching are described in detail. Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, placements, clinical practice, art workshop, interactive teaching, educational visits, project, essay writing, artistic creativity, etc.</i> <i>The student's study hours for each learning activity are given as well as the hours of non-directed study according to the principles of the ECTS</i>	<table border="0"> <thead> <tr> <th style="text-align: left;">Activity</th> <th style="text-align: right;">Semester workload</th> </tr> </thead> <tbody> <tr> <td>Lectures</td> <td style="text-align: right;">65</td> </tr> <tr> <td>Practical Sessions</td> <td style="text-align: right;">25</td> </tr> <tr> <td>Self-study</td> <td style="text-align: right;">35</td> </tr> <tr> <td> Course total</td> <td style="text-align: right;"> 125</td> </tr> </tbody> </table>	Activity	Semester workload	Lectures	65	Practical Sessions	25	Self-study	35	 Course total	 125
Activity	Semester workload										
Lectures	65										
Practical Sessions	25										
Self-study	35										
 Course total	 125										

<p>STUDENT PERFORMANCE EVALUATION</p> <p><i>Description of the evaluation procedure</i></p> <p><i>Language of evaluation, methods of evaluation, summative or conclusive, multiple choice questionnaires, short-answer questions, open-ended questions, problem solving, written work, essay/report, oral examination, public presentation, laboratory work, clinical examination of patient, art interpretation, other</i></p> <p><i>Specifically-defined evaluation criteria are given, and if and where they are accessible to students.</i></p>	<p>Language of the evaluation methods: Greek</p> <p>A. In theory</p> <p>1. Voluntary group project and presentation which reassures the 20% of the final grade and 10% from the quizzes during attendance of the presentations.</p> <p>2. Written final exam comprising:</p> <ul style="list-style-type: none"> - Short-answer questions - Combination judgment questions <p>B. In the Practical sessions</p> <ul style="list-style-type: none"> - Laboratory Reports (mini projects) which in the case of excellence can provide waive of exams and comprise: <ul style="list-style-type: none"> short answers to questions judgment questions Problem solving <p>2. Written final exam comprising:</p> <ul style="list-style-type: none"> - Short-answer questions - Combination judgment questions - Problem solving
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1. RECOMMENDED BIBLIOGRAPHY

<p>- Greek and Other Languages</p> <p><i>Bona M., (2005), Ποιότητα & Έλεγχος Ποιότητας Κλωστοϋφαντουργικών Προϊόντων, Πέππας Θ Βασιλειάδης Σ, Αθήνα</i></p> <p><i>Booth J., (1986), Principles of Textile Testing, Heywood Books, London</i></p> <p><i>Morton, W.E., Hearle, J.W.S.,(2008), Physical Properties of Textile Fibres: Fourth Edition, The Textile Institute, UK</i></p> <p><i>Amutha K, (2016), A practical guide to textile testing</i></p> <p><i>Saville B.P.(1999), Physical Testing of Textiles, Woodhead Publishing, UK</i></p> <p><i>Jinlian HU,(2008), Fabric testing, The Textile Institute, Woodhead Publishing, UK</i></p> <p><i>Sheraz A., Abher R., Ali A, Faheem A.,(2017), Advanced Textile Testing Techniques, CRC Press</i></p> <p><i>Κέφης Β.Ν., Διοίκηση Ολικής Ποιότητας. Θεωρία και Πρότυπα, 2^η Έκδοση, Κριτική ΑΕ, Αθήνα</i></p> <p><i>Taylor MA, (1993), Technology of textile properties</i></p> <p><i>Μπαμπά Μ., Μανωλάκη Μ., Τσουτσαίος Α., "Εργαστηριακός Οδηγός Ποιοτικός Έλεγχος Υφάσματος" ΟΕΔΒ, Αθήνα</i></p> <p><i>ASTM – "Annual book of standards"</i></p> <p><i>BS – "Handbook of textiles"</i></p> <p><i>ISO- International Standards Organization</i></p> <p>https://www.oeko-tex.com/gr/business/business_home/business_home.xhtml</p> <p>https://cottonmadeinafrica.org/en/</p> <p>https://global-standard.org/</p> <p>https://www.sedex.com/</p>
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Create and Design Fashion Collections

1. GENERAL

SCHOOL	Design studies		
DEPARTMENT	Creative Design & Clothing		
LEVEL OF STUDIES	Undergraduate		
MODULE CODE	605	LEARNING HOURS PER WEEK	6°

MODULE TITLE	Creation and Development of Fashion Collections	
TEACHING METHODS AND ACTIVITIES	LEARNING HOURS PER WEEK	CREDIT UNITS
Lectures	2	
Studio Work	3	
<i>ΣΥΝΟΛΟ</i>	5	5
MODULE TYPE	Μάθημα κατ' επιλογήν Υποχρεωτικό, επιστημονικού πεδίου, Ειδικότητας	
PREREQUISITE MODULES	Fashion Forecast & Design, Capturing and Developing of a design concept.	
LANGUAGE OF TEACHING / EXAMS LANGUAGE :	Greek & English	
COURSE OFFERED TO ERASMUS STUDENTS	YES	
MODULE WEB PAGE (URL)		

2. LEARNING OUTCOMES

Learning outcomes

This course is orientated to evolve student’s abilities, on designing a complete fashion collection that is targeted to a specific consumer profile. The design proposal should be captured according to the selected market’s needs and follows the latest fashion trends.

After the successful attendance of this course, students will be capable to:

- Design and classify fashion ranges
- Define the selected target market
- Organize collections contents (fabrics, colors, details) in different concepts
- Evaluate the functionality and the commerciality of the garments
- Research and “manage” fashion trends
- Reflect consumer’s style on their designer collections

General Skills

- Group & Independent project work
- Evolving of design skills
- Research, analysis and combination of information with the use of the essential technology
- Fashion project evaluation and self evaluation

3. COURSE CONTENTS

Theoretical part:

The meaning of capturing a design concept for a fashion collection. Factors that affect the procedure for creating a collection. Evolving a design proposal for the fashion ranges. Maintaining style and restrictions. Functional design. Style adaption of a specific target market. The importance of market research and how to organize it. Fashion forecasting on season’s key shapes and textiles. Adjustment of fashion trends according to a variety of different garment categories. Consistency of style. Integration of basic lines in the collection.

Studio classwork:

Research and creation of a consumer profile according to the selected target market. Presentation of fashion trends and concept design boards. Design of the basic key shapes and color management. Developing of a color swatch board. Selection of fabrics and details. Evolving multiple garment ranges. Color and trimmings variations. Design technical drawings (flats). Creation of garment’s specification sheet.

4. TEACHING METHODS - EVALUATION

TEACHING METHODS.	<p>Lectures in class include discussion, presentations, fashion case studies and students’ active participation.</p> <p>Studio classwork exercises. Individual and group projects. Creation of a complete fashion collection.</p>
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<p>USE OF TECHNOLOGY, DIGITAL SOFTWARE, DATA AND COMMUNICATION</p>	<p>Communication with students through emails, e-learning website and RSS feeds.</p>														
<p>TEACHING SCHEDULE</p>	<table border="1"> <thead> <tr> <th data-bbox="655 595 986 696">Activities</th> <th data-bbox="986 595 1315 696">Semesters' work load</th> </tr> </thead> <tbody> <tr> <td data-bbox="655 696 986 797">Lectures</td> <td data-bbox="986 696 1315 797">26</td> </tr> <tr> <td data-bbox="655 797 986 898">Studio Work</td> <td data-bbox="986 797 1315 898">39</td> </tr> <tr> <td data-bbox="655 898 986 999">Design Project essays</td> <td data-bbox="986 898 1315 999"></td> </tr> <tr> <td data-bbox="655 999 986 1099">Independent Research</td> <td data-bbox="986 999 1315 1099">60</td> </tr> <tr> <td data-bbox="655 1099 986 1200"></td> <td data-bbox="986 1099 1315 1200"></td> </tr> <tr> <td data-bbox="655 1200 986 1413"> Modules' Total Score (25 hours work load per ΔM) </td> <td data-bbox="986 1200 1315 1413">125</td> </tr> </tbody> </table>	Activities	Semesters' work load	Lectures	26	Studio Work	39	Design Project essays		Independent Research	60			Modules' Total Score (25 hours work load per ΔM)	125
Activities	Semesters' work load														
Lectures	26														
Studio Work	39														
Design Project essays															
Independent Research	60														
Modules' Total Score (25 hours work load per ΔM)	125														
<p><i>Modules' Total Score</i></p>	<p>Final grade is formed from students' final design portfolio, the project has been assigned during studio classwork. After the completion of lectures and studio classwork, student will present orally and by text a complete fashion design portfolio.</p>														

5. Bibliography

Συγγράμματα μέσω του συστήματος ΕΥΔΟΣ
 Προς επικαιροποίηση
 Συμπληρωματική προτεινόμενη βιβλιογραφία

1. DANGER, Eric, P,(1987). *The Colour Handbook*. USA: Gower Publishing Co.
2. SPROLES, G.B. & BURNS, L. D. (1994). *Changing Appearances. Understanding Dress in Contemporary Society*. USA: Fairchild Publications.
3. FRINGS, G.S. (1991). *Fashion from Concept to Consumer*. New Jersey: Prentice-Hall Inc.
4. FIORE , Anne Marie, & , KIMLE, Patricia Anne, 1997. *Understanding Aesthetics for the Merchandising & Design Professional*. New York: Fairchild Publications, Inc.

INTELLIGENT SYSTEMS

1. ΓΕΝΙΚΑ

SCHOOL	DESIGN SCIENCES		
DEPARTMENT	CREATIVE DESIGN & CLOTHING		
LEVEL OF STUDIES	UNDERGRADUATE		
COURSE CODE	606	SEMESTER OF STUDIES	6
COURSE TITLE	INTELLIGENT SYSTEMS		
INDEPENDENT TEACHING ACTIVITIES	WEEKLY TEACHING HOURS		CREDIT UNITS
Lectures	5		5
Practice Exercise	0		
Laboratory Exercise	0		
TOTAL	5		5
COURSE TYPE	Generic Knowledge, Scientific Area, Skills Development		
PREREQUISITE COURSES:			
LANGUAGE OF TEACHING AND EXAMS:	Greek		
THE COURSE IS OFFERED TO ERASMUS STUDENTS	Yes (in Greek)		

1. LEARNING OUTCOMES

Μαθησιακά Αποτελέσματα

The aim of the course is to introduce basic principles of Artificial Intelligence and applications of different research fields in fashion. Students will learn how intelligent systems such as visual object detection, demand forecasting, trend forecasting, shopping recommendations and stock management are already used in fashion.

By the end of the course the students are expected to:

- Understand the possibilities of different fields of Artificial Intelligence that can be used in fashion.
- Distinguish terms like data, information and knowledge.
- Understand the basic characteristics of an intelligent system.
- Identify when it is feasible to develop an intelligent system.
- Choose the most suitable data mining method.
- Use specialized tools and intelligent systems.

General Skills

- Search, analyze and synthesize data and information, using the necessary technologies
- Adapting to new situations
- Decision making.
- Independent work
- Teamwork
- Work in multidisciplinary environment
- Development of new research ideas
- Project planning and management
- Improvement of open minded, creative and inductive thought

1. COURSE CONTENT

- Introduction to Artificial Intelligence:
 - Data, information, knowledge. Information and decision making.
 - Expert systems: Architecture, Knowledge representation and coding, Knowledge Editing. Ontologies, conclusions' extraction.
- Data mining applications. Artificial intelligence techniques for:
 - Visual object detection.
 - Demand forecasting.
 - Trend forecasting.
 - Relevant shopping recommendations.
 - Stock management
 - Optimal price policy determination.
 - Chatbots

1. TEACHING AND LEARNING METHODS - EVALUATION

TEACHING METHOD.	Face to face theoretical teaching (lectures, discussion, problem solving and practice exercises). Powerpoint presentations, analysis of related papers. Introduction to open-source intelligent systems.																					
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	Self-assessment quizzes. Electronic communication with students.																					
TEACHING ORGANIZATION	<table> <thead> <tr> <th><i>Activity</i></th> <th><i>Semester Workload</i></th> <th></th> </tr> </thead> <tbody> <tr> <td>Lectures</td> <td>10</td> <td></td> </tr> <tr> <td>Exercises</td> <td>25</td> <td></td> </tr> <tr> <td>Laboratory Exercises</td> <td>0</td> <td></td> </tr> <tr> <td>Writing laboratory reports and projects</td> <td></td> <td>10</td> </tr> <tr> <td>Individual Study</td> <td>80</td> <td></td> </tr> <tr> <td>Total</td> <td>125</td> <td></td> </tr> </tbody> </table>	<i>Activity</i>	<i>Semester Workload</i>		Lectures	10		Exercises	25		Laboratory Exercises	0		Writing laboratory reports and projects		10	Individual Study	80		Total	125	
<i>Activity</i>	<i>Semester Workload</i>																					
Lectures	10																					
Exercises	25																					
Laboratory Exercises	0																					
Writing laboratory reports and projects		10																				
Individual Study	80																					
Total	125																					
STUDENT EVALUATION	<p>1. Final written examination (FE) (50%) which consists of</p> <ul style="list-style-type: none"> - Multiple choice questions - Questions that require analysis of existing intelligent systems - Questions that require comparative assessment <p>2. Semester Project (SP) (50%). The project requires literature review about different fields of artificial intelligence. The deliverables are a written essay of 2500-3000 words and a public presentation of 20 minutes duration.</p> <p>The final score of the course ($SP*0.5+ FE*0.5$) and FE individual score should be at least five (5).</p>																					

1. RECOMMENDED BIBLIOGRAPHY

ΣRecommended Bibliography through Eudoxus

Μπούταλης Ι., Συρακούλης Γ., (2010) Υπολογιστική Νοημοσύνη και Εφαρμογές, Αφοι. Παπαμάρκου. (Κωδικός Βιβλίου στον Εύδοξο: 68372685)

Complementary Bibliography through University or course's webpage

Ευφυή Συστήματα στην Ένδυση - Σημειώσεις και διαφάνειες Θεωρίας. Κιλκίς

-Related Scientific journals and books:

- ***Journal of Textile Science & Engineering***
- ***Decision Support Systems***
- ***Expert Systems with Applications***
- ***Knowledge-Based Systems***
- ***Tsan-Ming Choi, Chi-Leung Hui, Yong Yu, Intelligent Fashion Forecasting Systems: Models and Applications, Springer, Berlin, Heidelberg, 2014.***

1. General

SCHOOL	DESIGN SCIENCES		
DEPARTMENT	CREATIVE DESIGN & CLOTHING		
LEVEL OF STUDIES	<i>Undergraduate</i>		
MODULE CODE	607		6*
MODULE TITLE	VISUAL MERCHANDISING		
TEACHING METHODS AND ACTIVITIES		LEARNING HOURS PER WEEK	CREDIT UNITS
	Lectures	2	5
	Practice Assessments	3	
	TOTAL	5	
MODULE TYPE	Μάθημα Επιστημονικής Περιοχής, Μάθημα Ειδικότητας		
PREREQUISITE MODULES			
LANGUAGE OF TEACHING / EXAMS LANGUAGE	Greek		
COURSE OFFERED TO ERASMUS STUDENTS	Yes (in English)		
MODULE WEB PAGE (URL)	moda.teicm.gr/A2F6BD88.el.aspx http://moda.teicm.gr/1EDF94DA.el.aspx		

2. LEARNING OUTCOMES

Learning Aims
<p>The course aims to enable students to successfully use the environments and elements of Visual Merchandising to shape the space of a clothing store. Understand the importance of Visual Merchandising, which is often overlooked as a factor in the success (or failure) of a clothing retail store. Understand the importance of creating an image for a clothing store. · Understand the use of Visual Merchandising by the retail store in clothing to encourage the sale of clothing and accessories. · Analysis of the elements of Visual Merchandising: layout of the store, lighting, shelves and hangers, sets, shop windows and presentation inside the store. Monitoring emerging trends in Visual Merchandising.</p>
General Skills

• Search, analysis and synthesis of data and information • Respect for diversity and multiculturalism • Respect for the natural environment • Adaptation to new situations • Decision making • Autonomous work • Work in an interdisciplinary environment • Work in an international environment • Exercise criticism and self-criticism • Promoting free, creative and inductive thinking • Teamwork • Project Planning and Management

3. MODULE CONTENT

Lecture component

- History and Evolution of Visual Merchandising: From 'window dressing' to visual merchandising.
- Visual Merchandising: The 'face' of retail. Store image, positioning and competitive advantage. Types of retail and corresponding VM concepts.
- Visual Merchandising environments: External and internal environments & shop windows – image, atmosphere and 'theatre'.
- Elements of Visual Merchandising: Strategic use of elements for better results. Props, display stands and hangers, mannequins, flora, signage and graphics.
- Principles of Design and Composition: Balance and emphasis. Harmony, proportions and rhythm.
- Colour combinations. Visual and sound effects: Light and sound as selling tools. Visual Merchandising: Image and corporate identity.
- Visual Merchandising functions: Store image, brand identity.
- Evaluating Visual Merchandising projects: Planning, budget & cost control in VM.
- Laboratory component
- Colour psychology, colour systems and combinations.
- Future Trends in Retail and Visual Merchandising: VM strategies.
- Brainstorming techniques.
- Selecting the target consumer; Store image and selection of the 'right' VM elements.
- Creation of moodboards, that visualise ideas for window displays.
- Constructing a model of a shop window or shop interior.

TEACHING AND LEARNING METHODS - EVALUATION

TEACHING METHODOLOGY	Theoretical teaching with discussion and active participation of students. Power point presentations are made during the course. Laboratory exercises. Individual and group projects.
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	search scientific literature through HEAL-Link & Google Scholar. Communication with students via e-mail, the course website and the Facebook pag.
TEACHING PLAN	<p style="text-align: center;">Activity Semester Workload</p> <p style="text-align: center;">Lectures 35</p> <p style="text-align: center;">Εργαστηριακές Ασκήσεις 30</p> <p style="text-align: center;">Συγγραφή εργαστηριακών αναφορών και projects 10</p> <p style="text-align: center;">Αυτοτελής Μελέτη 50</p> <p style="text-align: center;">Σύνολο Μαθήματος (25 ώρες φόρτου ανά ΑΜ) 125</p>
STUDENT EVALUATION	<p>The evaluation of the course in terms of the theoretical part is formed by a written final examination with development and comparative evaluation of theory elements.</p> <p>The examination of the laboratory part includes an individual or group project of study and decoration of a shop window according to a specific profile for the consumer, as well as the latest fashion trends. .</p> <p><i>Assessment Language, Assessment Methods, Formative or Conclusive, Multiple Choice Test, Short Answer Questions, Essay Development Questions, Problem Solving, Written Assignment, Report, Oral Exam, Public Presentation, Artistic Project, Other</i></p>

RECOMMENDED BIBLIOGRAPHY

Συγγράμματα μέσω του συστήματος ΕΥΔΟΞΟΣ

1. Bailey, S., & Baker, J. (2014). Visual Merchandising for Fashion. Fairchild Books.
2. Colborne, R. (1998). Διακόσμηση Βιτρίνας και Παρουσίαση Εμπορευμάτων. (Β. Αγγελόπουλος, Μεταφρ.) Ακίνα: Κων.
3. Ebster, C., & Garaus, M. (2011). Store Design and Visual Merchandising: Creating store space that encourages buying. Business Expert Press.
4. Morgan, T. (2008). Visual Merchandising: Windows and In-Store Displays for Retail. Laurence King Publishing.
5. Morgan, T. (2010). Window Display: New Visual Merchandising. London: Laurence King.
6. Pegler, M. (2006). Visual Merchandising and Display (5η εκδ.). Fairchild Books.
7. Portas, M. (1999). Windows: The Art of Retail Display. London: Thames & Hudson.
8. Stone, E. (1989). Fashion Merchandising: An Introduction. NY: McGraw-Hill.
9. Underhill, P. (2008). Why we buy: The science of shopping. Simon & Schuster.

FASHION COMMUNICATION

1. GENERAL

SCHOOL	DESIGN SCIENCES
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DEPARTMENT	CREATIVE DESIGN & FASHION		
LEVEL OF STUDIES	Undergraduate		
MODULE CODE	608	SEMESTER	60
MODULE TITLE	FASHION COMMUNICATION		
<i>in case the credits are awarded in separate parts of the course e.g. Lectures, Laboratory Exercises, etc. If the credits are awarded uniformly for the whole course, indicate the weekly teaching hours and the total number of credits.</i>			
	Lectures	4	5
	Εργαστηριακές Ασκήσεις		
	TOTAL	4	
MODULE TYPE	Μάθημα κατ' επιλογήν Υποχρεωτικό, επιστημονικού πεδίου, Ειδικότητας		
PREREQUISITE MODULES	Σημειολογία του στυλ, Αισθητικές Θεωρίες		
LANGUAGE OF TEACHING / EXAMS LANGUAGE	Greek		
COURSE OFFERED TO ERASMUS STUDENTS	yes (in English)		
MODULE WEB PAGE (URL)			

2 LEARNING OUTCOMES

LEARNING OUTCOMES
<p>The Aesthetics of Clothing as a means of communication in the Fashion Market. Its interaction with the consumer and the analysis of codes of understanding by target groups. Constructing a Fashion image, styling, according to the latest market trends. The style update.</p> <p>Upon successful completion of the course students should:</p> <p>Understand and analyse the visual "message" of clothes</p> <p>Identify the Market to which it is addressed</p> <p>To compose an image of "Fashion" using photography and text (fashion editorial)</p> <p>Create styling boards</p>
General Skills

- Individual assignments
 - Teamwork
 - Research, analysis and synthesis of information, use of various technologies
- Exercising criticism and self-criticism

3. MODULE CONTENT

Through lectures / discussions, Fashion Communication will be sought as image and text, through Fashion photography and Fashion journalism. The text & the photo as a tool of the designer in the description / analysis of an aesthetic proposal. The course will be developed through the study of 20th century Fashion photographers and emblematic Fashion photographic illustrations. The "language" of the Fashion text will be studied, with references in English terms and the latest "style" trends of the Market will be analysed. The students, through the suggestions and the research of the respective material will present a complete proposal of "communication" of one, or a collection of clothes.

4. TEACHING AND LEARNING METHODS - EVALUATION

TEACHING METHODOLOGY	Theoretical teaching & conversation with different / explanatory quests.
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	Communication with students via e-mail & through a relevant group on social media.
TEACHING PLAN	<p style="text-align: center;">Activity Semester Workload</p> <p style="text-align: center;">Lectures 52</p> <p style="text-align: center;">Exercises project 13</p> <p style="text-align: center;">Individual studying 60</p> <p style="text-align: center;">Total</p> <p style="text-align: center;">(25 hours) 125</p>
STUDENT EVALUATION <i>Assessment Language, Assessment Methods, Formative or Conclusive, Multiple Choice Test, Short Answer Questions, Essay Development Questions, Problem Solving, Written Assignment, Report, Oral Exam, Public Presentation, Artistic Project, Other</i>	The final grade is a result of the successful completion of an assignment. By the end of the semester the student is obliged to present orally his work and deliver a hand out a digital or printed version of it.

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5. RECOMMENDED BIBLIOGRAPHY

<ol style="list-style-type: none"> 1. Kohle, Y. and Nolf, N. (1998). <i>Claire McCardell: Redefining Modernism</i>. New York: Abrams 2. MALOSS, G. (Ed.). (1998). <i>The Style Engine</i>. USA: The Monacelli Press Inc. 3. Murray, M. P. (1989). <i>Changing Styles in Fashion: Who, What, Why</i>. New York: Fairchild. 4. Sherrill, M., and Carey A. K. (2002). <i>Stylemakers: Inside Fashion</i>. New York: Monacelli Press.

SCHOOL	DESIGN SCIENCES		
DEPARTMENT	CREATIVE DESIGN AND CLOTHING		
LEVEL OF STUDIES	<i>Undergraduate</i>		
MODULE CODE	609	ΕΞΑΜΗΝΟ ΣΠΟΥΔΩΝ	6th
MODULE TITLE	Operations Research		
TEACHING METHODS AND ACTIVITIES <i>σε περίπτωση που οι πιστωτικές μονάδες απονέμονται σε διακριτά μέρη του μαθήματος π.χ. Διαλέξεις, Εργαστηριακές Ασκήσεις κ.λπ. Αν οι πιστωτικές μονάδες απονέμονται ενιαία για το σύνολο του μαθήματος αναγράψτε τις εβδομαδιαίες ώρες διδασκαλίας και το σύνολο των πιστωτικών μονάδων</i>	LEARNING HOURS PER WEEK	CREDIT UNITS	
	Lectures	4	5
	TOTAL	4	

MODULE TYPE	Επιστημονικής Περιοχής
<i>Υποβάθρου , Γενικών Γνώσεων, Επιστημονικής Περιοχής, Ανάπτυξης Δεξιοτήτων</i>	
PREREQUISITE MODULES	
LANGUAGE OF TEACHING / EXAMS LANGUAGE	greek
COURSE OFFERED TO ERASMUS STUDENTS	yes (in English language)
MODULE WEB PAGE (URL)	https://elearning.cm.ihu.gr/course/view.php?id=163

1. LEARNING OUTCOMES

LEARNING OUTCOMES	
<p>Περιγράφονται τα μαθησιακά αποτελέσματα του μαθήματος οι συγκεκριμένες γνώσεις, δεξιότητες και ικανότητες καταλλήλου επιπέδου που θα αποκτήσουν οι φοιτητές μετά την επιτυχή ολοκλήρωση του μαθήματος.</p> <p><i>Συμβουλευτείτε το Παράρτημα Α</i></p> <ul style="list-style-type: none"> · Περιγραφή του Επιπέδου των Μαθησιακών Αποτελεσμάτων για κάθε ένα κύκλο σπουδών σύμφωνα με Πλαίσιο Προσόντων του Ευρωπαϊκού Χώρου Ανώτατης Εκπαίδευσης · Περιγραφικοί Δείκτες Επιπέδων 6, 7 & 8 του Ευρωπαϊκού Πλαισίου Προσόντων Διά Βίου Μάθησης <p><i>και Παράρτημα Β</i></p> <ul style="list-style-type: none"> · Περιληπτικός Οδηγός συγγραφής Μαθησιακών Αποτελεσμάτων 	
<p>The course aims to provide basic knowledge on the use of quantitative models, mathematical techniques and algorithms targeting to the “correct” or “optimal” decision making, concerning issues of organization, resource allocation, management and strategy in general. Upon successful completion of the course students will be able to understand and use quantitative analysis techniques and procedures to address and solve management problems. Thus, in addition to the criteria for optimizing the operation of a system, it will be possible to understand its future behavior, the performance indicators of its individual components and its behavior under different operating conditions, which are determining factors in the production process.</p>	
General Skills	

Λαμβάνοντας υπόψη τις γενικές ικανότητες που πρέπει να έχει αποκτήσει ο πτυχιούχος (όπως αυτές αναγράφονται στο Παράρτημα Διπλώματος και παρατίθενται ακολούθως) σε ποια / ποιες από αυτές αποσκοπεί το μάθημα;

Αναζήτηση, ανάλυση και σύνθεση δεδομένων και πληροφοριών, με τη χρήση και των απαραίτητων τεχνολογιών
 Προσαρμογή σε νέες καταστάσεις
 Λήψη αποφάσεων
 Αυτόνομη εργασία
 Ομαδική εργασία
 Εργασία σε διεθνές περιβάλλον
 Εργασία σε διεπιστημονικό περιβάλλον
 Παράγωγή νέων ερευνητικών ιδεών

Σχεδιασμός και διαχείριση έργων
 Σεβασμός στη διαφορετικότητα και στην πολυπολιτισμικότητα
 Σεβασμός στο φυσικό περιβάλλον
 Επίδειξη κοινωνικής, επαγγελματικής και ηθικής υπευθυνότητας και ευαισθησίας σε θέματα φύλου
 Άσκηση κριτικής και αυτοκριτικής
 Προαγωγή της ελεύθερης, δημιουργικής και επαγωγικής σκέψης

- **Data search, analysis and synthesis using the necessary technologies**
- **Decision making**
- **Autonomous work**
- **Work in an interdisciplinary environment**
- **Project design and management**
- **Application of knowledge in practice**
- **Promoting free, creative and inductive thinking**

3. MODULE CONTENT

Introduction (origin, history, effects & approach to problem solving), Project Management and Scheduling (network configuration & solution, PERT, CPM), Linear Programming (introduction, mathematical modeling, Simplex method, examples of maximization and minimization problems with several constraints), Transportation problems (initial solutions with north-west corner method, least cost method, Vogel's method), optimal solutions, assignments and transshipment problems, Production systems planning (distribution problem, scheduling of jobs in one, two & three media), Total production planning, Spatial planning of production systems

4. TEACHING AND LEARNING METHODS - EVALUATION

<i>TEACHING METHODOLOGY</i>	Face-to-face in classroom and online support
<i>USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES</i>	Software (Excel) Learning process support through the course website

TEACHING PLAN	Δραστηριότητα	Φόρτος Εργασίας Εξαμήνου
	Lectures	26
	Tutoring	13
	Individual study	86
	Σύνολο Μαθήματος (25 ώρες φόρτου εργασίας ανά πιστωτική μονάδα)	125
STUDENT EVALUATION	Final exam (100%) that contains solution of exercises and/or short-answer questions.	
<i>Assessment Language, Assessment Methods, Formative or Conclusive, Multiple Choice Test, Short Answer Questions, Essay Development Questions, Problem Solving, Written Assignment, Report, Oral Exam, Public Presentation, Artistic Project, Other</i>		

5. RECOMMENDED BIBLIOGRAPHY

-Προτεινόμενη Βιβλιογραφία :

-Συναφή επιστημονικά περιοδικά:

- 1) Κώστογλου Β., «Επιχειρησιακή Έρευνα & Οργάνωση Συστημάτων Παραγωγής», Εκδόσεις Τζιόλα, 2016.
- 2) Κώστογλου Β., «Επιχειρησιακή Έρευνα – Μεθοδολογία – Εφαρμογές και Προβλήματα Πληροφοριακά Συστήματα Διοίκησης», Εκδόσεις Τζιόλα, 2004.
- 3) Υψηλάντης Π., «Επιχειρησιακή Έρευνα, Λήψη Επιχειρηματικών Αποφάσεων», Εκδόσεις Προπομπός, 2007.
- 4) Παπαρρίζος Κ., «Γραμμικός Προγραμματισμός, Αλγόριθμοι και Εφαρμογές», Εκδόσεις Ζυγός, 1999.
- 5) Κιόχος Π.Α., Θάνος Γ.Α., Σαλαμούρης Δ., «Επιχειρησιακή Έρευνα», Σύγχρονη Εκδοτική, 2002.
- 6) Μηλιώτης Π.Α., «Επιχειρησιακή Έρευνα», Αθήνα, Εκδόσεις Σταμούλη, 1994.
- 7) Hillier F.S., Lieberman G.J., «Εισαγωγή στην Επιχειρησιακή Έρευνα», Εκδόσεις Παπαζήση, 1985.
- 8) Taha H.A., «Operations Research an introduction», Macmillan Publishing, 1982.
- 9) Anderson D.R., Sweeney D.J., Williams T.A., Martin K., «Διοικητική Επιστήμη – Ποσοτικές μέθοδοι για τη λήψη επιχειρηματικών αποφάσεων», Εκδόσεις Κριτική, 2014.

Bibliography in english:

F S Hiller and G J Lieberman, “Introduction to Operations Research”

H A Taha, “Operations Research – An Introduction”

W L Winston, “Operations Research – theory and applications”

Gupta Prem Kumar and Hira D S, “Operations Research”

M Carter, C C Price, G Rabadi, “Operations Research - A Practical Introduction”

Clothing supply chain management

1. ΓΕΝΙΚΑ

ΣΧΟΛΗ	ΕΠΙΣΤΗΜΩΝ ΣΧΕΔΙΑΣΜΟΥ		
ΤΜΗΜΑ	ΔΗΜΙΟΥΡΓΙΚΟΥ ΣΧΕΔΙΑΣΜΟΥ & ΕΝΔΥΣΗΣ		
ΕΠΙΠΕΔΟ ΣΠΟΥΔΩΝ	Προπτυχιακό		
ΚΩΔΙΚΟΣ ΜΑΘΗΜΑΤΟΣ	610	ΕΞΑΜΗΝΟ ΣΠΟΥΔΩΝ	7*
ΤΙΤΛΟΣ ΜΑΘΗΜΑΤΟΣ	Clothing supply chain management		
ΑΥΤΟΤΕΛΕΙΣ ΔΙΔΑΚΤΙΚΕΣ ΔΡΑΣΤΗΡΙΟΤΗΤΕΣ	ΕΒΔΟΜΑΔΙΑΙΕΣ ΩΡΕΣ ΔΙΔΑΣΚΑΛΙΑΣ	ΠΙΣΤΩΤΙΚΕ Σ ΜΟΝΑΔΕΣ	
Διαλέξεις	4	5	
Εργαστηριακές Ασκήσεις			

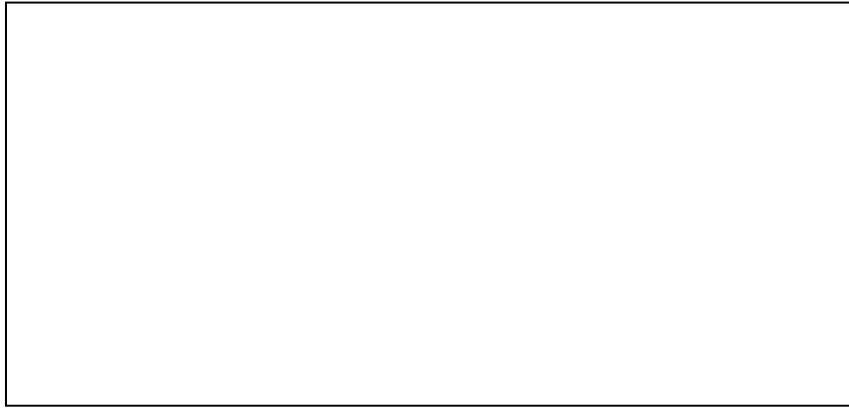
	ΣΥΝΟΛΟ	4
ΤΥΠΟΣ ΜΑΘΗΜΑΤΟΣ	Μάθημα Επιλογής Υποχρεωτικό, Μάθημα Επιστημονικής Περιοχής, Μάθημα Ειδικότητας	
ΠΡΟΑΠΑΙΤΟΥΜΕΝΑ ΜΑΘΗΜΑΤΑ:		
ΓΛΩΣΣΑ ΔΙΔΑΣΚΑΛΙΑΣ και ΕΞΕΤΑΣΕΩΝ:	Ελληνική	
ΤΟ ΜΑΘΗΜΑ ΠΡΟΣΦΕΡΕΤΑΙ ΣΕ ΦΟΙΤΗΤΕΣ ERASMUS	ΝΑΙ (στην Αγγλική)	
ΗΛΕΚΤΡΟΝΙΚΗ ΣΕΛΙΔΑ ΜΑΘΗΜΑΤΟΣ (URL)	http://moda.teicm.gr/682CA0AC.el.aspx	

1. ΜΑΘΗΣΙΑΚΑ ΑΠΟΤΕΛΕΣΜΑΤΑ

Μαθησιακά Αποτελέσματα
<ul style="list-style-type: none"> • Το μάθημα αποσκοπεί να καταστήσει τους φοιτητές ικανούς να αναλύουν και να διαχειρίζονται το μίγμα της εφοδιαστικής αλυσίδας στον κλάδο της ένδυσης. Γνώση του μίγματος της εφοδιαστικής αλυσίδας (supply chain mix) • Κατανόηση των χαρακτηριστικών των νέων θεωριών, που αναπτύσσονται σήμερα στην εφοδιαστική αλυσίδα ένδυσης • Αξιολόγηση των στρατηγικών διανομής στη διεθνή εφοδιαστική αλυσίδα ένδυσης • Κατανόηση των βασικών αρχών της διαχείρισης αποθεμάτων ένδυσης • Χρησιμοποίηση των Νέων Ηλεκτρονικών Τεχνολογιών Επικοινωνίας στην εφοδιαστική αλυσίδα ένδυσης
Γενικές Ικανότητες
<p>Search, analyze and synthesize data and information Respect for diversity and multiculturalism Respect for the natural environment Adaptation to new situations Decision making Autonomous work Work in an interdisciplinary environment Working in an international environment</p>

1. ΠΕΡΙΕΧΟΜΕΝΟ ΜΑΘΗΜΑΤΟΣ

<p>Managing the Textiles & Clothing supply chain mix: stock, storage, transportation.</p> <p>Relations in the Textiles & Clothing Supply Chain: Quick Response (QR) – Efficient Consumer Response (ECR) – Collaborative Planning, Forecasting and Replenishment (CFPR) – Continuous Replenishment Model (CRM) – Vendor-Managed Inventory (VMI).</p> <p>Types of stock – Economic Order Quantity (EOQ) – Push/Pull systems.</p> <p>Procurement and outsourcing in Textiles and Clothing.</p> <p>Managing the global Textiles and Clothing Supply Chain. Distribution strategies in Textiles and Clothing. Managing Electronic Communication Technologies in the Textiles and Clothing Supply Chain.</p>
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1. ΔΙΔΑΚΤΙΚΕΣ και ΜΑΘΗΣΙΑΚΕΣ ΜΕΘΟΔΟΙ - ΑΞΙΟΛΟΓΗΣΗ

ΤΡΟΠΟΣ ΠΑΡΑΔΟΣΗΣ	Theoretical part teaching with discussion and active participation of students. Power point presentations are made during the course.
ΧΡΗΣΗ ΤΕΧΝΟΛΟΓΙΩΝ ΠΛΗΡΟΦΟΡΙΑΣ ΚΑΙ ΕΠΙΚΟΙΝΩΝΙΩΝ	Search scientific literature through HEAL-Link & Google Scholar. Communication with students via e-mail, the course website and the Facebook page.
ΟΡΓΑΝΩΣΗ ΔΙΔΑΣΚΑΛΙΑΣ	<i>Δραστηριότητα Φόρτος Εργασίας Εξαμήνου</i> Διαλέξεις Ασκήσεις πράξης Εργαστηριακές Ασκήσεις Συγγραφή εργαστηριακών αναφορών και projects Αυτοτελής Μελέτη <i>Σύνολο Μαθήματος</i> <i>(25 ώρες φόρτου ανά ΔΜ) 125</i>
ΑΞΙΟΛΟΓΗΣΗ ΦΟΙΤΗΤΩΝ	Final exam (70%) that includes development and comparative evaluation of theory with emphasis on the clothing industry II. Individual Work (30%) concerning a case study of leading supply chain management of clothing companies

1. ΣΥΝΙΣΤΩΜΕΝΗ ΒΙΒΛΙΟΓΡΑΦΙΑ

Συγγράμματα μέσω του συστήματος ΕΥΔΟΞΟΣ

1. Berry, L. L. (1999). Discovering the Soul of Services. Free Press.
2. Bruce, M., Daly, L., & Towers, N. (2004). Lean or agile: A solution for supply chain management in the textiles and clothing industry? International Journal of Operations & Production Management , 24 (2), ζς. 151-170.
3. Christopher, M. (2007). Logistics και Διαχείριση Εφοδιαστικής Αλυσίδας. (Χ. Λίτσος, Επιμ., & Ν. Παματάκης, Μεταφρ.) Ακίνα: Κριτική.
4. Fiegenbaum, A., & Fiegenbaum, V. (2003). The Power of Management Capital: Utilising the new drivers of innovation profitability and growth in a demanding global economy. NY: McGraw-Hill Trade.
5. Simchi-Levi. (2002). Designing and Managing the Supply Chain.
6. Simchi-Levi. (2002). Introduction to Supply Chain Management.
7. Simchi-Levi. (2002). Inventory Management and Risk Pooling.
8. Ulrich, W. (2004). System Transformation: Revolutionising Supply Chain Management through Holistic Governance Structures.

Students should also keep up-to date with articles from the following academic journals, which are regularly used in class:

1. MIT Sloan Management Review .
2. International Journal of Operations & Production Management .

3. Wall Street Journal .
4. International Journal of Logistics Management .
5. Harvard Business Review .
6. European Management Journal .
7. Journal of Business Research .
8. Strategy and Business .

7^o SEMESTER
GREEK CULTURE & COSTUME

1. GENERAL

SCHOOL	Design Sciences		
DEPARTMENT	Creative Design & Clothing		
LEVEL OF STUDIES	<i>Undergraduate</i>		
MODULE CODE	701	SEMESTER	7 ^o
MODULE TITLE	GREEK CULTURE & COSTUME		
TEACHING METHODS AND ACTIVITIES	LEARNING HOURS PER WEEK	CREDIT UNITS	
Lectures	4		
<i>TOTAL</i>	4	6	
MODULE TYPE	Μάθημα Υποχρεωτικό, Υποβάθρου, Γενικής Υποδομής		
PREREQUISITE MODULES			

LANGUAGE OF TEACHING / EXAMS LANGUAGE	Greek
COURSE OFFERED TO ERASMUS STUDENTS	Yes (in English))
MODULE WEB PAGE (URL)	

1 LEARNING OUTCOMES

Learning Aims	
<p>The course seeks, through the study of Greek folk culture, to highlight the elements of creativity and traditional handicrafts that interact with clothing, so that they become a field of knowledge and research of further design approaches. . Upon successful completion of the course students should:</p> <ul style="list-style-type: none"> · To know the basic ideologies and social trends that emanate from popular culture. · Recognize the costume characteristics of the local clothing of different geographical areas. · To describe the evolution of the Greek traditional costume. · To reproduce a costume proposal inspired by Greek popular culture. 	
General Skills	
<ul style="list-style-type: none"> ● Search and analyze sources. ● Presentation and highlighting of individual issues. ● Comparative illustration of a subject. ● Teamwork. 	

2. MODULE CONTENT

In the course a study/research on the most important periods of contemporary Greek art and popular culture will be developed. Reference is made to folk costume and folk culture shaped by folk artists and craftsmen. Ceramics and Textiles are studied regarding their interaction with Clothing. Literature of the "Generation of 1930" as a source/reference to clothing and formulation of a particular "Greek" style of clothing is discussed. History of textile, production, dyeing, sewing, production and exchange issues are analyzed. The social dimensions of clothing and fashion are explored collectively and individually (psychological/sociological approach) and historical and cultural aspects are interpreted.

3. TEACHING AND LEARNING METHODS - EVALUATION

TEACHING METHODOLOGY	Theoretical teaching with power point presentations. Search for individual topics through source research. Discussion, development of issues.	
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	Communication with students via e-mail, the course website and the course team in a closed social network group.	
TEACHING PLAN		
	<i>Δραστηριότητα</i>	<i>Φόρτος Εργασίας Εξαμήνου</i>
	Διαλέξεις	52
	project	13
	Αυτοτελής Μελέτη	60
	<i>total (25 ώρες φόρτου ανά ΔΜ)</i>	125
STUDENT EVALUATION <i>Assessment Language, Assessment Methods, Formative or Conclusive, Multiple Choice Test, Short Answer Questions, Essay Development Questions, Problem Solving, Written Assignment, Report, Oral Exam, Public Presentation, Artistic Project, Other</i>	<p>The final grade of the course is shaped by the performance of the students in the theoretical part.</p> <p>The evaluation of the course in terms of the theoretical part, is shaped by</p> <ul style="list-style-type: none"> • optional work / presentation & • written final exam. The written final examination of the theoretical part includes: <ul style="list-style-type: none"> - development questions. 	

5. RECOMMENDED BIBLIOGRAPHY

Συγγράμματα μέσω του συστήματος ΕΥΔΟΞΟΣ
Ι ΙΩΑΝΝΑ ΠΑΠΑΝΤΩΝΙΟΥ (1996). ΕΛΛΗΝΙΚΕΣ ΤΟΠΙΚΕΣ ΕΝΔΥΜΑΣΙΕΣ. ΠΕΛΟΠΟΝΝΗΣΙΑΚΟ ΛΑΟΓΡΑΦΙΚΟ ΙΔΡΥΜΑ
 Συμπληρωματική προτεινόμενη βιβλιογραφία
 Σόλλογικός τόμος. (1986). *Ελληνικός Λαϊκός Πολιτισμός II. Πρωτοπορία.*
 Παπαντωνίου Ιωάννα (2000). *Η ΕΛΛΗΝΙΚΗ ΕΝΔΥΜΑΣΙΑ. Από την Αρχαιότητα ως τις αρχές του 20ου αιώνα. ΕΜΠΟΡΙΚΗ ΤΡΑΠΕΖΑ ΤΗΣ ΕΛΛΑΔΟΣ.*

Consumer Behaviour

GENERAL

SCHOOL	DESIGN SCIENCES		
DEPARTMENT	CREATIVE DESIGN & CLOTHING		
LEVEL OF STUDIES	Προπτυχιακό		
MODULE CODE	702	ΕΞΑΜΗΝΟ ΣΠΟΥΔΩΝ	7*
MODULE TITLE	Consumer Behaviour		
TEACHING METHODS AND ACTIVITIES	LEARNING HOURS PER WEEK		CREDIT UNITS
	Lectures	3	5
	TOTAL	3	
MODULE TYPE	Μάθημα Επιλογής Υποχρεωτικό, Μάθημα Επιστημονικής Περιοχής, Μάθημα Ειδικότητας		
PREREQUISITE MODULES			
LANGUAGE OF TEACHING / EXAMS LANGUAGE	Greek		
COURSE OFFERED TO ERASMUS STUDENTS	Yes (in English)		
MODULE WEB PAGE (URL)	http://moda.teicm.gr/6634C0B0.el.aspx		

1. LEARNING OUTCOMES

Learning Aims

Introduction to Consumer Behaviour in Clothing. Consumer Behaviour and Clothing Purchases. Clothing Market Segmentation and Strategy. Personality and Lifestyle influencing choice of Clothes. Identity and Self influencing choice of Clothes. Consumer Motivation/Consumer Participation.
Mood states and Persuasion.
Consumer Perception of Clothing Brand messages.
Consumer Learning and Memory.
Online Communication and Consumer Behaviour towards Clothing.
Implications for Clothing Product Design. Individual Decision Making.
The Buying Process: Problem Identification. Information search. Consumer Choice. Acquisition/Consumption/Disposal.
New Products/Spread of Innovations.
After Sales/Satisfaction.
Reference Groups and Opinion Leaders.
Cultural Processes and Consumption. Social influences-Symbolic Consumption.
Family influences.
Subcultures.
Marketing and Social Corporate Responsibility.

General Skills

- Search, analyze and synthesize data and information
- Respect for diversity and multiculturalism
- Respect for the natural environment Adaptation to new situations
- Decision making Autonomous work Work in an interdisciplinary environment
- Working in an international environment Demonstration of social, professional and moral responsibility and sensitivity to gender issues Exercise criticism and self-criticism Promoting free, creative and inductive thinking

3. MODULE CONTENT

- Introduction to Consumer Behavior
- Study of Clothing Consumer
- Behavior Clothing Market Segmentation and Strategy

Consumers as Individuals

- Consumer perception
- Consumer Learning and Memory Internet
- Consumer Communication and Behavior
- Consumers in the Decision Making Process Individual Decision Making Purchasing Process / Problem Recognition Information Search Clothing
- Consumer Options Acquisition / Consumption / Rejection New Products / Dissemination of Innovations in clothing
- After Sale / Satisfaction Consumers,
- Culture and Subcultures Influence of Groups and Opinion Guides
- Cultural Processes and Consumption
- Social Influences
- Symbolic Consumption and Clothing Family Influences Subcultures

4. TEACHING AND LEARNING METHODS - EVALUATION

TEACHING METHODOLOGY .	Theoretical home teaching with discussion and active participation of students. Power point presentations are made during the course.																		
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	Search scientific literature through HEAL-Link & Google Scholar. Communication with students via e-mail, the course website and the Facebook page.																		
TEACHING PLAN	<table style="width: 100%; border: none;"> <tr> <td style="text-align: left;"><i>Activity</i></td> <td style="text-align: right;"><i>Semester Workload</i></td> </tr> <tr> <td>Διαλέξεις</td> <td style="text-align: right;">45</td> </tr> <tr> <td>Ασκήσεις πράξης</td> <td></td> </tr> <tr> <td>Εργαστηριακές Ασκήσεις</td> <td></td> </tr> <tr> <td>Συγγραφή εργαστηριακών αναφορών και projects</td> <td></td> </tr> <tr> <td>Αυτοτελής Μελέτη</td> <td style="text-align: right;">80</td> </tr> <tr> <td colspan="2" style="text-align: center;"><i>Σύνολο Μαθήματος</i></td> </tr> <tr> <td colspan="2" style="text-align: center;"><i>(25 ώρες φόρτου ανά ΔΜ)</i></td> </tr> <tr> <td></td> <td style="text-align: right;"><i>125</i></td> </tr> </table>	<i>Activity</i>	<i>Semester Workload</i>	Διαλέξεις	45	Ασκήσεις πράξης		Εργαστηριακές Ασκήσεις		Συγγραφή εργαστηριακών αναφορών και projects		Αυτοτελής Μελέτη	80	<i>Σύνολο Μαθήματος</i>		<i>(25 ώρες φόρτου ανά ΔΜ)</i>			<i>125</i>
<i>Activity</i>	<i>Semester Workload</i>																		
Διαλέξεις	45																		
Ασκήσεις πράξης																			
Εργαστηριακές Ασκήσεις																			
Συγγραφή εργαστηριακών αναφορών και projects																			
Αυτοτελής Μελέτη	80																		
<i>Σύνολο Μαθήματος</i>																			
<i>(25 ώρες φόρτου ανά ΔΜ)</i>																			
	<i>125</i>																		
STUDENT EVALUATION <i>Assessment Language, Assessment Methods, Formative or Conclusive, Multiple Choice Test, Short Answer Questions, Essay</i>	final exam (70%) that includes development and comparative evaluation of theory with emphasis on the clothing industry Teamwork (30%) that gives students the opportunity to research and apply different aspects of the concepts and theories covered in the course.																		

<i>Development Questions, Problem Solving, Written Assignment, Report, Oral Exam, Public Presentation, Artistic Project, Other</i>	
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5. RECOMMENDED BIBLIOGRAPHY

<p>Συγγράμματα μέσω του συστήματος ΕΥΔΟΞΟΣ</p> <p>Μπάλας, Γ. – Παπασταθοπούλου, Π. «Συμπεριφορά Καταναλωτή», Εκδοτικός Οίκος Rosili, 2013.</p> <p>Solomon, M. et al. «Συμπεριφορά Καταναλωτή», 11^η έκδοση, Εκδόσεις Τζιόλα, 2018.</p> <p><i>Συμπληρωματική προτεινόμενη βιβλιογραφία</i></p> <p>Ariely, D. "Predictably Irrational: The Hidden Forces That Shape Our Decisions", 2008, HarperCollins.</p> <p>Cialdini, R. "Influence: Science and Practice", 5^η ed., Allyn and Bacon, 2008.</p>

ΨΗΦΙΑΚΟ ΜΑΡΚΕΤΙΝΓΚ

1. GENERAL INFORMATION

SCHOOL	DESIGN SCIENCES		
DEPARTMENT	CREATIVE DESIGN & CLOTHING		
LEVEL OF STUDIES	UNDERGRADUATE		
COURSE CODE	703	SEMESTER OF STUDIES	6
COURSE TITLE	DIGITAL MARKETING		
INDEPENDENT TEACHING ACTIVITIES	WEEKLY TEACHING HOURS	CREDIT UNITS	
LECTURES	4		
Practice Exercise			
Laboratory Exercise			
<i>ΣΥΝΟΛΟ</i>	4	5	
COURSE TYPE	Compulsory course, Scientific Area, Special Infrastructure		
PREREQUISITE COURSES:			
LANGUAGE OF TEACHING AND EXAMS:	Greek		
THE COURSE IS OFFERED TO ERASMUS STUDENTS	YES (In English)		

1. LEARNING OUTCOMES

Learning Outcomes

Internet and digital technologies in general are now key factors in shaping today's markets and creating new data, new opportunities and new marketing tools. The aim of the course is to present these new possibilities, both strategically and regularly, and to connect them with the overall marketing strategy of an organization or company.

General Abilities

- Search, analysis and synthesis of data and information using the necessary technologies
- Respect for diversity and multiculturalism
- Respect for the natural environment
- Adaptation to new situations
- Decision making
- Autonomous work
- Work in an interdisciplinary environment
- Work in an international environment
- Demonstration of social, professional and moral responsibility and sensitivity to gender issues
- Exercise criticism and self-criticism
- Promoting free, creative and inductive thinking

1. COURSE CONTENT

. Topics covered include: marketing strategy in digital era, consumer behavior on the internet and other digital media, value creation, content marketing, pricing issues, means and internet marketing tools (own, paid, earned media), Search Engine Optimization, new intermediaries and alternative networks, electronic business models, forms and capabilities of social networks, web analytics & social media metrics.

1. TEACHING AND LEARNING METHODS - EVALUATION

TEACHING METHOD.	In class teaching of theory with discussion and active participation of students. Use of Power point presentations during the course.												
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	Scientific literature search through HEAL-Link & Google Scholar. Communication with students via e-mail, the course website and the Facebook page.												
TEACHING ORGANIZATION	<table><thead><tr><th><i>Activity</i></th><th><i>Semester project workload</i></th></tr></thead><tbody><tr><td>Lectures</td><td>40</td></tr><tr><td>Practice Exercise</td><td></td></tr><tr><td>Laboratory Exercise</td><td></td></tr><tr><td>Writing laboratory reports and projects</td><td>20</td></tr><tr><td>Independent Study</td><td>65</td></tr></tbody></table>	<i>Activity</i>	<i>Semester project workload</i>	Lectures	40	Practice Exercise		Laboratory Exercise		Writing laboratory reports and projects	20	Independent Study	65
<i>Activity</i>	<i>Semester project workload</i>												
Lectures	40												
Practice Exercise													
Laboratory Exercise													
Writing laboratory reports and projects	20												
Independent Study	65												

	Course Total (25 hours of load per Credit Unit) 125
STUDENT EVALUATION	<p>I. Written final exam (70%) that includes development and comparative evaluation of theory elements with emphasis on the Clothing Industry.</p> <p>I. Individual Project (30%) on the digital marketing strategies of Clothing Companies.</p>

1. RECOMMENDED BIBLIOGRAPHY

<p>Books through the EYDOXOS system</p> <ul style="list-style-type: none"> • "Digital Marketing", 2019, Rosili Publications. • Manarioti, A. "Social Media Marketing Guide", 2019, Rosili Publications. <p>Additional suggested bibliography</p> <ul style="list-style-type: none"> • Harris, C. "The Fundamentals of Digital Fashion Marketing", 2017, Bloomsbury Visual Arts.
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Planning and Research Methods

1. GENERAL

ΣΧΟΛΗ	ΕΠΙΣΤΗΜΩΝ ΣΧΕΔΙΑΣΜΟΥ		
ΤΜΗΜΑ	ΔΗΜΙΟΥΡΓΙΚΟΥ ΣΧΕΔΙΑΣΜΟΥ ΚΑΙ ΕΝΔΥΣΗΣ		
ΕΠΙΠΕΔΟ ΣΠΟΥΔΩΝ	Προπτυχιακό		
ΚΩΔΙΚΟΣ ΜΑΘΗΜΑΤΟΣ	704	ΕΞΑΜΗΝΟ ΣΠΟΥΔΩΝ	7*
ΤΙΤΛΟΣ ΜΑΘΗΜΑΤΟΣ	Planning and Research Methods		
ΑΥΤΟΤΕΛΕΙΣ ΔΙΔΑΚΤΙΚΕΣ ΔΡΑΣΤΗΡΙΟΤΗΤΕΣ <i>σε περίπτωση που οι πιστωτικές μονάδες απονέμονται σε διακριτά μέρη του μαθήματος π.χ. Διαλέξεις, Εργαστηριακές Ασκήσεις κ.λπ. Αν οι πιστωτικές μονάδες απονέμονται ενιαία για το σύνολο του μαθήματος αναγράψτε τις εβδομαδιαίες ώρες διδασκαλίας και το σύνολο των πιστωτικών μονάδων</i>	ΕΒΔΟΜΑΔΙΑΙΕΣ ΩΡΕΣ ΔΙΔΑΣΚΑΛΙΑΣ	ΠΙΣΤΩΤΙΚΕ Σ ΜΟΝΑΔΕΣ	
Διαλέξεις	3	5	
Εργαστηριακές Ασκήσεις			
ΣΥΝΟΛΟ	3		
<i>Προσθέστε σειρές αν χρειαστεί. Η οργάνωση διδασκαλίας και οι διδακτικές μέθοδοι που χρησιμοποιούνται περιγράφονται αναλυτικά στο 4.</i>			

ΤΥΠΟΣ ΜΑΘΗΜΑΤΟΣ <i>Υποβάθρου , Γενικών Γνώσεων, Επιστημονικής Περιοχής, Ανάπτυξης Δεξιοτήτων</i>	Ανάπτυξης Δεξιοτήτων
ΠΡΟΑΠΑΙΤΟΥΜΕΝΑ ΜΑΘΗΜΑΤΑ:	-
ΓΛΩΣΣΑ ΔΙΔΑΣΚΑΛΙΑΣ και ΕΞΕΤΑΣΕΩΝ:	Greek
ΤΟ ΜΑΘΗΜΑ ΠΡΟΣΦΕΡΕΤΑΙ ΣΕ ΦΟΙΤΗΤΕΣ ERASMUS	Yes (in english)
ΗΛΕΚΤΡΟΝΙΚΗ ΣΕΛΙΔΑ ΜΑΘΗΜΑΤΟΣ (URL)	

1. ΜΑΘΗΣΙΑΚΑ ΑΠΟΤΕΛΕΣΜΑΤΑ

Μαθησιακά Αποτελέσματα	
<p>Περιγράφονται τα μαθησιακά αποτελέσματα του μαθήματος οι συγκεκριμένες γνώσεις, δεξιότητες και ικανότητες κατάλληλου επιπέδου που θα αποκτήσουν οι φοιτητές μετά την επιτυχή ολοκλήρωση του μαθήματος. Συμβουλευτείτε το Παράρτημα Α</p> <ul style="list-style-type: none"> • Περιγραφή του Επιπέδου των Μαθησιακών Αποτελεσμάτων για κάθε ένα κύκλο σπουδών σύμφωνα με Πλαίσιο Προσόντων του Ευρωπαϊκού Χώρου Ανώτατης Εκπαίδευσης • Περιγραφικοί Δείκτες Επιπέδων 6, 7 & 8 του Ευρωπαϊκού Πλαισίου Προσόντων Διά Βίου Μάθησης <p>και Παράρτημα Β</p> <ul style="list-style-type: none"> • Περιληπτικός Οδηγός συγγραφής Μαθησιακών Αποτελεσμάτων 	
<p>The course aims to provide the appropriate experience in selecting and specializing in scientific research topics, related to bibliography selection methods, research tools and the process of writing a scientific paper. Upon completion of the course students should be able to: a) identify a research topic and know where to seek help and guidance, b) analyze an initial research problem in its important elements and ask questions about what exactly is being researched, what are the alternatives, what are the constraints, what is the situation in relation to the competition, what are the expected results in order to choose the appropriate combination of techniques and methodology to carry out a research c) to know alternative research techniques and be able to select the most appropriate methods d) to carry out research at all stages, selecting methods, constructing questionnaires, constructing samples, analyzing data e) interpreting results obtained from data analysis.</p>	
Γενικές Ικανότητες	
<p>Λαμβάνοντας υπόψη τις γενικές ικανότητες που πρέπει να έχει αποκτήσει ο πτυχιούχος (όπως αυτές αναγράφονται στο Παράρτημα Διπλώματος και παρατίθενται ακολούθως) σε ποια / ποιες από αυτές αποσκοπεί το μάθημα.:</p>	
<p>Αναζήτηση, ανάλυση και σύνθεση δεδομένων και πληροφοριών, με τη χρήση και των απαραίτητων τεχνολογιών Προσαρμογή σε νέες καταστάσεις Λήψη αποφάσεων Αυτόνομη εργασία Ομαδική εργασία Εργασία σε διεθνές περιβάλλον Εργασία σε διεπιστημονικό περιβάλλον Παράγωγή νέων ερευνητικών ιδεών</p>	<p>Σχεδιασμός και διαχείριση έργων Σεβασμός στη διαφορετικότητα και στην πολυπολιτισμικότητα Σεβασμός στο φυσικό περιβάλλον Επίδειξη κοινωνικής, επαγγελματικής και ηθικής υπευθυνότητας και εναισθησίας σε θέματα φύλου Άσκηση κριτικής και αυτοκριτικής Προαγωγή της ελεύθερης, δημιουργικής και επαγωγικής σκέψης</p>

- Data search, analysis and synthesis using the necessary technologies
- Decision making
- Autonomous work
- Work in an interdisciplinary environment
- Project design and management
- Production of new scientific ideas
- Promoting free, creative and inductive thinking

1. ΠΕΡΙΕΧΟΜΕΝΟ ΜΑΘΗΜΑΤΟΣ

Research methodology and methods, induction to scientific work, research design and implementation, primary and secondary data, quantitative research with structured questionnaire, questionnaire construction, reliability and validity, sampling, quality research methods, working paper, case study, case study formulation results, oral presentation of work. Extensive use of English will be made in the course. Presentation of projects in english.

1. ΔΙΔΑΚΤΙΚΕΣ και ΜΑΘΗΣΙΑΚΕΣ ΜΕΘΟΔΟΙ - ΑΞΙΟΛΟΓΗΣΗ

<p>ΤΡΟΠΟΣ ΠΑΡΑΔΟΣΗΣ <i>Πρόσωπο με πρόσωπο, Εξ αποστάσεως εκπαίδευση κ.λπ.</i></p>	Face-to-face in classroom and online support															
<p>ΧΡΗΣΗ ΤΕΧΝΟΛΟΓΙΩΝ ΠΛΗΡΟΦΟΡΙΑΣ ΚΑΙ ΕΠΙΚΟΙΝΩΝΙΩΝ <i>Χρήση Τ.Π.Ε. στη Διδασκαλία, στην Εργαστηριακή Εκπαίδευση, στην Επικοινωνία με τους φοιτητές</i></p>	Learning process support through the course website															
<p>ΟΡΓΑΝΩΣΗ ΔΙΔΑΣΚΑΛΙΑΣ <i>Περιγράφονται αναλυτικά ο τρόπος και μέθοδοι διδασκαλίας, Διαλέξεις, Σεμινάρια, Εργαστηριακή Άσκηση, Άσκηση Πεδίου, Μελέτη & ανάλυση βιβλιογραφίας, Φροντιστήριο, Πρακτική (Τοποθέτηση), Κλινική Άσκηση, Καλλιτεχνικό Εργαστήριο, Διαδραστική διδασκαλία, Εκπαιδευτικές επισκέψεις, Εκπόνηση μελέτης (project), Συγγραφή εργασίας / εργασίων, Καλλιτεχνική δημιουργία, κ.λπ.</i></p> <p><i>Αναγράφονται οι ώρες μελέτης του φοιτητή για κάθε μαθησιακή δραστηριότητα καθώς και οι ώρες μη καθοδηγούμενης μελέτης ώστε ο συνολικός φόρτος εργασίας σε επίπεδο εξαμήνου να αντιστοιχεί στα standards του ECTS</i></p>	<table border="1"> <thead> <tr> <th data-bbox="526 1328 726 1444">Δραστηριότητα</th> <th data-bbox="734 1328 1029 1444">Φόρτος Εργασίας Εξαμήνου</th> </tr> </thead> <tbody> <tr> <td data-bbox="526 1444 726 1529">Lectures</td> <td data-bbox="734 1444 1029 1529">26</td> </tr> <tr> <td data-bbox="526 1529 726 1671">Study and analyzing bibliography</td> <td data-bbox="734 1529 1029 1671">13</td> </tr> <tr> <td data-bbox="526 1671 726 1776">Study / group project</td> <td data-bbox="734 1671 1029 1776">86</td> </tr> <tr> <td data-bbox="526 1776 726 1861"></td> <td data-bbox="734 1776 1029 1861"></td> </tr> <tr> <td data-bbox="526 1861 726 1946"></td> <td data-bbox="734 1861 1029 1946"></td> </tr> <tr> <td data-bbox="526 1946 726 2031"></td> <td data-bbox="734 1946 1029 2031"></td> </tr> </tbody> </table>	Δραστηριότητα	Φόρτος Εργασίας Εξαμήνου	Lectures	26	Study and analyzing bibliography	13	Study / group project	86							
Δραστηριότητα	Φόρτος Εργασίας Εξαμήνου															
Lectures	26															
Study and analyzing bibliography	13															
Study / group project	86															

	Σύνολο Μαθήματος (25 ώρες φόρτου εργασίας ανά πιστωτική μονάδα)	125
ΑΞΙΟΛΟΓΗΣΗ ΦΟΙΤΗΤΩΝ Περιγραφή της διαδικασίας αξιολόγησης Γλώσσα Αξιολόγησης, Μέθοδοι αξιολόγησης, Διαμορφωτική ή Συμπερασματική, Δοκιμασία Πολλαπλής Επιλογής, Ερωτήσεις Σύντομης Απάντησης, Ερωτήσεις Ανάπτυξης Δοκιμίων, Επίλυση Προβλημάτων, Γραπτή Εργασία, Έκθεση / Αναφορά, Προφορική Εξέταση, Δημόσια Παρουσίαση, Εργαστηριακή Εργασία, Κλινική Εξέταση Ασθενούς, Καλλιτεχνική Ερμηνεία, Άλλη / Άλλες Αναφέρονται ρητά προσδιορισμένα κριτήρια αξιολόγησης και εάν και που είναι προσβάσιμα από τους φοιτητές.	Group project presentation (30%) Final exam (70%)	

1. ΣΥΝΙΣΤΩΜΕΝΗ-ΒΙΒΛΙΟΓΡΑΦΙΑ

-Προτεινόμενη Βιβλιογραφία :
-Συναφή επιστημονικά περιοδικά:

1. Ζαφειρόπουλος Κ., «Πώς γίνεται μια επιστημονική εργασία - Επιστημονική έρευνα και συγγραφή εργασιών», Εκδόσεις Κριτική Α.Ε., 2015.
2. Λιαργκόβας Π., Δερμάτης Ζ., Κομηνός Δ., «Μεθοδολογία ης Έρευνας και συγγραφή επιστημονικών εργασιών», Εκδόσεις Τζιόλα, 2019.
3. Saunders M., Lewis P., Thornhill A., «Μέθοδοι Έρευνας στις Επιχειρήσεις και την Οικονομία», Εκδόσεις Δίσιγμα, 2014.
4. Gray D., «Η ερευνητική μεθοδολογία στον πραγματικό κόσμο», Εκδόσεις Τζιόλα, 2018.
5. Χαλικιάς Μ., Σαμαντά Ε., «Εισαγωγή στη μεθοδολογία έρευνας εκπόνησης επιστημονικών εργασιών», Σύγχρονη Εκδοτική ΕΠΕ, 2016.
6. Ίσαρη Φ., Πουρκός Μ., «Ποιοτική μεθοδολογία έρευνας», Αποθετήριο Κάλιπος, 2016.
7. Θεοφύλιδης Χ., «Η συγγραφή επιστημονικής εργασίας», Δαρδανός, 2013.
8. Babbie E., «Εισαγωγή στην κοινωνική Έρευνα», Εκδόσεις Κριτική Α.Ε., 2018.

ΔΙΟΙΚΗΣΗ ΕΠΙΧΕΙΡΗΣΕΩΝ ΕΝΔΥΣΗΣ

1. ΓΕΝΙΚΑ

ΣΧΟΛΗ	ΕΠΙΣΤΗΜΩΝ ΣΧΕΔΙΑΣΜΟΥ		
ΤΜΗΜΑ	ΔΗΜΙΟΥΡΓΙΚΟΥ ΣΧΕΔΙΑΣΜΟΥ & ΕΝΔΥΣΗΣ		
ΕΠΙΠΕΔΟ ΣΠΟΥΔΩΝ	Προπτυχιακό		
ΚΩΔΙΚΟΣ ΜΑΘΗΜΑΤΟΣ	705	ΕΞΑΜΗΝΟ ΣΠΟΥΔΩΝ	7^ο

ΤΙΤΛΟΣ ΜΑΘΗΜΑΤΟΣ	ΔΙΟΙΚΗΣΗ ΕΠΙΧΕΙΡΗΣΕΩΝ ΕΝΔΥΣΗΣ Clothing Business Management	
ΑΥΤΟΤΕΛΕΙΣ ΔΙΑΔΚΤΙΚΕΣ ΔΡΑΣΤΗΡΙΟΤΗΤΕΣ	ΕΒΔΟΜΑΔΙΑΙΕΣ ΩΡΕΣ ΔΙΔΑΣΚΑΛΙΑΣ	ΠΙΣΤΩΤΙΚΕ Σ ΜΟΝΑΔΕΣ
Διαλέξεις	4	5
Εργαστηριακές Ασκήσεις		
ΣΥΝΟΛΟ	4	
ΤΥΠΟΣ ΜΑΘΗΜΑΤΟΣ	Μάθημα Υποχρεωτικό, Γενικών Γνώσεων, Γενικής Υποδομής	
ΠΡΟΑΠΑΙΤΟΥΜΕΝΑ ΜΑΘΗΜΑΤΑ:		
ΓΛΩΣΣΑ ΔΙΔΑΣΚΑΛΙΑΣ και ΕΞΕΤΑΣΕΩΝ:	Ελληνική	
ΤΟ ΜΑΘΗΜΑ ΠΡΟΣΦΕΡΕΤΑΙ ΣΕ ΦΟΙΤΗΤΕΣ ERASMUS	ΝΑΙ (στην Αγγλική)	
ΗΛΕΚΤΡΟΝΙΚΗ ΣΕΛΙΔΑ ΜΑΘΗΜΑΤΟΣ (URL)		

1. ΜΑΘΗΣΙΑΚΑ ΑΠΟΤΕΛΕΣΜΑΤΑ

Μαθησιακά Αποτελέσματα
<p>Το μάθημα αποσκοπεί να καταστήσει τους φοιτητές ικανούς να παίρνουν μέρος στη διοίκηση μιας επιχείρησης ένδυσης, οργανώνοντας αποτελεσματικά την εργασία τους/της ομάδας που διοικούν.</p> <ul style="list-style-type: none"> • Η απόκτηση γενικών γνώσεων για τον κόσμο της Κλωστ/γίας και Ένδυσης, της σημασίας και πορείας αυτών των κλάδων στην παγκόσμια και ελληνική οικονομία. • Η απόκτηση γνώσεων για τον τρόπο λειτουργίας και διοίκησης των επιχειρήσεων ένδυσης. • Η επίγνωση της σημασίας της Έρευνας και Ανάπτυξης Νέων Προϊόντων στις επιχειρήσεις Κ/Ε. • Η γνωριμία με τις λειτουργίες της Διοίκησης Επιχειρήσεων (Προγραμματισμός-Οργάνωση-Διοίκηση-Έλεγχος).
Γενικές Ικανότητες
<ul style="list-style-type: none"> • Αναζήτηση, ανάλυση και σύνθεση δεδομένων και πληροφοριών • Σεβασμός στη διαφορετικότητα και στην πολυπολιτισμικότητα • Σεβασμός στο φυσικό περιβάλλον • Προσαρμογή σε νέες καταστάσεις • Λήψη αποφάσεων • Αυτόνομη εργασία • Εργασία σε διεπιστημονικό περιβάλλον • Εργασία σε διεθνές περιβάλλον • Επίδειξη κοινωνικής, επαγγελματικής και ηθικής υπευθυνότητας και ευαισθησίας σε θέματα φύλου • Άσκηση κριτικής και αυτοκριτικής • Προαγωγή της ελεύθερης, δημιουργικής και επαγωγικής σκέψης

1. ΠΕΡΙΕΧΟΜΕΝΟ ΜΑΘΗΜΑΤΟΣ

Η θεματολογία του περιλαμβάνει τα ακόλουθα:

- Ιστορική εξέλιξη της τεχνολογικής και οικονομικής ανάπτυξης της Κλωστοϋφαντουργίας/Ένδυσης. Βασικές έννοιες και ορισμοί της Διοίκησης (management). Τύποι επιχειρήσεων ένδυσης, πολυεθνικές επιχειρήσεις ένδυσης.
- Βασικές αρχές προγραμματισμού (planning) και διαδικασία καταρτισμού προγραμμάτων. Οργάνωση: καταμερισμός εργασίας, τμηματοποίηση, εποπτεία, συστήματα οργάνωσης. Συγκέντρωση – αποκέντρωση εξουσίας, οργανογράμματα, στελέχωση, προγραμματισμός ανθρώπινου δυναμικού, θέσεις εργασίας, εκπαίδευση, αξιολόγηση, αμοιβές.
- Διεύθυνση – ηγεσία: έννοια και θεωρίες ηγεσίας, αποτελεσματική ηγεσία, υποκίνηση-παρακίνηση, δημιουργία ομάδων, τυπικές/άτυπες εργασιακές ομάδες.
- Λειτουργία ελέγχου: έννοια και περιεχόμενο, μηχανισμοί ελέγχου.

1. ΔΙΔΑΚΤΙΚΕΣ και ΜΑΘΗΣΙΑΚΕΣ ΜΕΘΟΔΟΙ - ΑΞΙΟΛΟΓΗΣΗ

ΤΡΟΠΟΣ ΠΑΡΑΔΟΣΗΣ	Θεωρητική από έδρα διδασκαλία με συζήτηση και ενεργή συμμετοχή των φοιτητών. Κατά την διάρκεια του μαθήματος γίνονται παρουσιάσεις σε power point.
ΧΡΗΣΗ ΤΕΧΝΟΛΟΓΙΩΝ ΠΛΗΡΟΦΟΡΙΑΣ ΚΑΙ ΕΠΙΚΟΙΝΩΝΙΩΝ	Αναζήτηση επιστημονικής βιβλιογραφίας μέσω HEAL-Link & Google Scholar. Επικοινωνία με φοιτητές μέσω e-mail, της ιστοσελίδας του μαθήματος και της σελ. στο Facebook.
ΟΡΓΑΝΩΣΗ ΔΙΔΑΣΚΑΛΙΑΣ	<i>Δραστηριότητα Φόρτος Εργασίας Εξαμήνου</i> Διαλέξεις Ασκήσεις πράξης Εργαστηριακές Ασκήσεις Συγγραφή εργαστηριακών αναφορών και projects Αυτοτελής Μελέτη <i>Σύνολο Μαθήματος</i> <i>(25 ώρες φόρτου ανά ΔΜ) 100</i>
ΑΞΙΟΛΟΓΗΣΗ ΦΟΙΤΗΤΩΝ	Γραπτή τελική εξέταση (100%) που περιλαμβάνει ανάπτυξη και συγκριτική αξιολόγηση στοιχείων θεωρίας με έμφαση στον κλάδο της ένδυσης.

1. ΣΥΝΙΣΤΩΜΕΝΗ ΒΙΒΛΙΟΓΡΑΦΙΑ

Συγγράμματα μέσω του συστήματος ΕΥΔΟΞΟΣ

Bateman, T.S. et al. «Διοίκηση Επιχειρήσεων», 2019, εκδόσεις Τζιόλα.

Dess, G. et al. «Στρατηγική Διοίκηση: Θεωρία και Εφαρμογές», 9^η έκδ. 2019, εκδόσεις Τζιόλα.

Συμπληρωματική προτεινόμενη βιβλιογραφία

Thind, R. "Strategic Fashion Management", 2017, Routledge.

1. GENERAL

SCHOOL	DESIGN SCIENCES		
DEPARTMENT	CREATIVE DESIGN & CLOTHING		
LEVEL OF EDUCATION	<i>UNDERGRADUATE</i>		
LESSON CODE	706	SEMESTER OF STUDIES	7th
COURSE TITLE	Creating Collection & Portfolio		
INDERENDENT TEACHING ACTIVITIES	WEEKLY TEACHING HOURS	CREDIT UNITS	
LECTURES	6	5	
PRACTISE EXERCISES			
LABORATORY EXERCISES	3		
TOTAL	6	5	
COURSE TYPE:	Elective course Compulsory, scientific field, Skills Development		
PREREQUISITE COURSES:	Fashion Forecast & Design, Conception & Development of Design Idea.		
LANGUAGE OF TEACHING AND EXAMS:	GREEK		
THE COURSE IS OFFERED TO ERASMUS STUDENTS	YES		
COURSE WEBSITE (URL)			

2 LEARNING OUTCOMES

Learning outcomes
<p>The course aims to enable students to synthesize the knowledge they have acquired overall in the design & manufacture of clothing and to create in the spirit of the studio, their personal collection, from design to the creation of the first sample.</p> <p>Upon successful completion of the course students should:</p> <ul style="list-style-type: none"> • Design & complete their personal creations going through all the stages of clothing manufacturing. • To work as a team in the "environment" of a studio. • Solve problems related to the different stages of clothing completion (case studies). • Perfect the first sample.
General Abilities
<ul style="list-style-type: none"> • Autonomic work • Skills Development • Search, analysis and synthesis of data and information, using the necessary technologies • Exercise criticism and self-criticism

3 COURSE CONTENT

<p>Theoretical part: Research and presentation of the topic. Elaboration of the theme and the aesthetic / design possibilities it offers. Presentation and discussion of the proposed personal collections.</p> <p>Workshop part: Work in the environment of the studio, selection and use of the appropriate a 'and b' materials, development of sewing and cutting techniques, decoration and embroidery, until the completion of the samples. Review, corrections.</p>

4 TEACHING & LEARNING METHODS - EVALUATION

DELIVERY METHODS.	<p>Theoretical (face to face) teaching with presentation of methodology.</p> <p>Supervised work in the studio.</p>
USE OF INFORMATION & COMMUNICATION TECHNOLOGIES	<p>Communication with students via e-mail & through a relevant group on social media</p>

TEACHING ORGANIZATION	<i>Activity</i>	<i>Semester Workload</i>
	Lectures	40
	Laboratory Exercises	32
	Atelier	30
	Independent Study	23
	<i>Course Total (25 hours of load per Teaching Units)</i>	<i>125</i>
STUDENT EVALUATION	The final grade of the course concerns the completion of the work assigned during the workshop. At the end of the theoretical lectures and workshops, the student should present a complete portfolio and a complete collection of clothes.	

1. 5 **RECOMMENDED BIBLIOGRAPHY**

Books through the EYDOXOS system (For updates)

Additional suggested bibliography

1. Palomo-Lovinski, N. (2010). *Conceptualists*. In N. Palomo-Lovinski, *World's most influential fashion designers* (pp. 160-185). Huntingdon, GBR: A & C Black.
2. Gill, Alison (2016). *Deconstruction Fashion: The Making of Unfinished, Decomposing and Re-assembled Clothes*.

Articles

1. Lynch, A., & Strauss, M. (2007). *Fashion as performance*. In *Changing fashion*. Ανακτήθηκε στις 10/10/ 2011, από <http://www.bergfashionlibrary.com/view/CHANGFASH/chapter-CHANGFASH00010008.xml>
2. Quinn, B. (2005). *Chalayan, Hussein*. Ανακτήθηκε στις 15/9/ 2011, από <http://www.bergfashionlibrary.com/view/bazf/bazf00121.xml>
3. Quinn, B. (2002). *Japanese Innovation*. Ανακτήθηκε στις 15/10/ 2011, από <http://www.bergfashionlibrary.com/view/TECFASH/chapter-TECFASH0010.xml>

Smith, N. (2010, Νοέμβριος 10). *Chalayan's visual adventure*. Ανακτήθηκε στις 7/11/2011, από <http://www.d-talks.com/2010/11/chalayans-visual-adventure/>

2.

MODERN APPLICATION in PRODUCTION MANAGEMENT

1. GENERAL INFORMATION

SCHOOL	DESIGN SCIENCES		
DEPARTMENT	CREATIVE DESIGN & CLOTHING		
LEVEL OF STUDIES	UNDERGRADUATE		
COURSE CODE	707	ΕΞΑΜΗΝΟ ΣΠΟΥΔΩΝ	7th
COURSE TITLE	Modern Application in Production Management		
INDEPENDENT TEACHING ACTIVITIES	WEEKLY TEACHING HOURS	CREDIT UNITS	
Lectures	3	5	
Laboratory Exercises	3		
TOTAL	6		
Προσθέστε σειρές αν χρειαστεί. Η οργάνωση διδασκαλίας και οι διδακτικές μέθοδοι που χρησιμοποιούνται περιγράφονται αναλυτικά στο (δ).			

COURSE TYPE	Μάθημα Ανάπτυξης Δεξιοτήτων
PREREQUISITE COURSES:	
LANGUAGE OF TEACHING AND EXAMS:	Greek
THE COURSE IS OFFERED TO ERASMUS STUDENTS	YES (In English)
DIGITAL COURSE PAGE (URL)	

1. LEARNING OUTCOMES

Learning Outcomes
<ul style="list-style-type: none"> • To acquire knowledge on the electronic programming, control and management of clothing production processes by using specialized information systems in the clothing sector. • Once the course has been successfully followed, students should: • To acquire knowledge of the importance of information management for the manufacture of garments through industrial computing applications and IT clothing systems. • To gain knowledge of the general structure of information systems in order to understand their use • Acquire skills to handle specialized information systems in the clothing industry
General Skills

Searching, analyzing and synthesizing data and information using the necessary technologies
 Stand-alone work
 Group Work
 Decision-making

1. COURSE CONTENT

Theoretical Part

Definition of an information system concept. The importance of the information in the clothing production process. Structural analysis of digital IT systems (Server-Client). Review of types of information systems and systems of customer relationships and data exchange. Analysis of system functional areas. Introduction to the Clothing Production Flow Systems.

Laboratory Part:

Analysis and laboratory practice in modern industrial computing applications in the manufacture of garments (layer-cutting, placement, 3D presentation, etc.), with practical exercises. Analysis and training in a real environment of specialized information systems for the production of clothing

1. TEACHING AND LEARNING METHODS - EVALUATION

TEACHING METHOD.	In class for the Theoretical part and in the ICT LAB for the Laboratory Exercises
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	Use of digital optical media for theory Use of computers to create forms and procedures for quality management systems. at the K/S Laboratory
TEACHING ORGANIZATION	<p style="text-align: center;"><i>Activity Semester project workload</i></p> <p style="text-align: center;">Lectures Practice Exercise Laboratory Exercise Writing laboratory reports and projects Independent Study</p> <p style="text-align: center;">Course Total (25 hours of load per Credit Unit) 125</p> <p style="text-align: center;">Total 125</p>

STUDENT EVALUATION	<p>Theory</p> <p>1. Progress Reviews with Development questions to assess the degree of understanding of clothing production systems and applications eligible for exemption in part of final examinations in the event of successful promotion of reports</p> <p>2. Final examination (100%) comprising:</p> <p>- Performing computer exercises clerk:</p> <p>1. Laboratory clothing exercises with the right to an exemption part of final examinations in the event of successful promotion of reports</p> <p>2. Final examination (100%) involving performance of computer exercises</p>
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1. RECOMMENDED BIBLIOGRAPHY

- Προτεινόμενη Βιβλιογραφία:

- "Manufacturing Execution Systems", Digital Applications International, DAI Solutions, 2001
- Εγχειρίδιο συστήματος CAM Polyorganise V5.2, Πολύτροπον, 2001
- Σημειώσεις μαθήματος Βιομηχανικών Εφαρμογών και εφαρμογών πληροφορικής στην Ένδυση, Καρυπίδης Μιχαήλ, 2012
- Διοικητικά Πληροφοριακά Συστήματα, Γιαννακόπουλος Δ., Παπουτσής Ι., Σύγχρονη Διδακτική, Αθήνα, 2012
- Εγχειρίδιο συστήματος RUNAWAY, Designer, Otpitex, 2003

Συναφή επιστημονικά περιοδικά:

ΑΝΑΠΤΥΞΗ ΠΡΟΪΟΝΤΩΝ ΓΙΑ ΤΗΝ ΚΥΚΛΙΚΗ ΟΙΚΟΝΟΜΙΑ

1. GENERAL

SCHOOL	Design Sciences		
ACADEMIC UNIT	Creative Design and Clothing		
LEVEL OF STUDIES	Undergraduate		
COURSE CODE	708	SEMESTER	7th
COURSE TITLE	Product Development for a Circular Economy		
INDEPENDENT TEACHING ACTIVITIES	WEEKLY TEACHING HOURS		CREDITS
Lectures	3		5
Laboratory	3		
	6		
COURSE TYPE	Course of Speciality, (Explicit substructure)		
PREREQUISITE COURSES:	-		

LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek
IS THE COURSE OFFERED TO ERASMUS STUDENTS	Yes in English
COURSE WEBSITE (URL)	

1. LEARNING OUTCOMES

Learning outcomes
<i>The course learning outcomes, specific knowledge, skills and competences of an appropriate level, which the students will acquire with the successful completion of the course are described.</i>
<p>This course intends to promote the students' ability</p> <ul style="list-style-type: none"> ● to monitor and manage the development of new products considering the concepts of circular economy ● to collaborate into the process of development of new sustainable products in the means of Innovation Strategy of the garment business ● to evaluate the alternative scenarios for development of new products for the consumer of clothing goods.
General Competences
<i>Taking into consideration the general competences that the degree-holder must acquire (as these appear in the Diploma Supplement and appear below), at which of the following does the course aim?</i>
<p>General competences that the degree-holder will acquire:</p> <ul style="list-style-type: none"> ● Research, analysis and data processing for information extraction ● Respect in the diversity and multiculturalism ● Respect to the natural environment ● Adapting to novel circumstances ● Decision making ● Private study ● Work in a interdisciplinary environment ● Work in international environment ● Critical thinking and self evaluation ● Production of creative, inductive and free thinking. ● Team working ● Planning and project management

1. COURSE CONTENT

The development of new clothing products with added value and respect to the environment. Creativity and brainstorming. Market research targeting the consumer. International market and consumer trends for the clothing sector. Textile recycling process. Eco materials. Innovation strategy. Strategic planning, product quality, internal/external stimulus and product specifications. Product life cycle. Product identity: Definition of the basic elements– Standards and product specifications. Eco labelling and certification. The process of planning and development of garment collection. Cradle to cradle.

1. TEACHING and LEARNING METHODS - EVALUATION

DELIVERY	Lectures of theory using power point presentations with group discussion. Laboratory practices. Individual and group projects																					
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY	Research of scientific bibliography through HEAL-Link & Google Scholar services. Communication with the students through e-mails, the course's website and Facebook site.																					
TEACHING METHODS <i>The manner and methods of teaching are described in detail.</i> <i>Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, placements, clinical practice, art workshop, interactive teaching, educational visits, project, essay writing, artistic creativity, etc.</i> <i>The student's study hours for each learning activity are given as well as the hours of non-directed study according to the principles of the ECTS</i>	<table border="0"> <thead> <tr> <th><i>Activity</i></th> <th colspan="2"><i>Semester workload</i></th> </tr> </thead> <tbody> <tr> <td>Lectures</td> <td>35</td> <td></td> </tr> <tr> <td>Practical Sessions</td> <td></td> <td></td> </tr> <tr> <td>Laboratorial Practice</td> <td>35</td> <td></td> </tr> <tr> <td>Project and Laboratory report writing</td> <td></td> <td>10</td> </tr> <tr> <td>Private Study</td> <td>45</td> <td></td> </tr> <tr> <td>Course Total</td> <td>125</td> <td></td> </tr> </tbody> </table>	<i>Activity</i>	<i>Semester workload</i>		Lectures	35		Practical Sessions			Laboratorial Practice	35		Project and Laboratory report writing		10	Private Study	45		Course Total	125	
<i>Activity</i>	<i>Semester workload</i>																					
Lectures	35																					
Practical Sessions																						
Laboratorial Practice	35																					
Project and Laboratory report writing		10																				
Private Study	45																					
Course Total	125																					
STUDENT PERFORMANCE EVALUATION <i>Description of the evaluation procedure</i> <i>Language of evaluation, methods of evaluation, summative or conclusive, multiple choice questionnaires, short-answer questions, open-ended questions, problem solving, written work, essay/report, oral examination, public presentation, laboratory work, clinical examination of patient, art interpretation, other</i> <i>Specifically-defined evaluation criteria are given, and if and where they are accessible to students.</i>	<p>The final course grade is estimated accounting the student's performance on the theoretical as well as the laboratorial practices with the restriction of obtaining a passable grade in both parts of the course.</p> <p>In the theoretical part of the course the evaluation is performed by written term examination. The student is asked to compose and critically evaluate based on the knowledge presented in the theoretical lectures.</p> <p>The exams of the laboratorial practices</p> <p>Include individual or group project on the innovation of textiles and clothing over the circular economy</p>																					

1. RECOMMENDED BIBLIOGRAPHY

Ulrich, K. & Eppinger, S. «Σχεδιασμός και Ανάπτυξη Προϊόντων» (2015) Εκδόσεις Τζιόλα
 Regensis Group "Regenerative Development and Design" (2016) HEAL-Link Wiley e-books

James "Sustainability Footprints in SMEs" (2015) HEAL-Link Wiley e-books

Stahel W.R., Circular Economy, Nature. 531 (2016) 435-438
 Michael Lieder, Amir Rashid *Towards circular economy implementation: a comprehensive review in the context of manufacturing industry*, Cleaner Production Volume 115, 1 March 2016, Pages 36-51

RAPID PROTOTYPING SYSTEMS

1. ΓΕΝΙΚΑ

SCHOOL	DESIGN SCIENCES		
DEPARTMENT	CREATIVE DESIGN & CLOTHING		
LEVEL OF STUDIES	UNDERGRADUATE		
COURSE CODE	801	SEMESTER OF STUDIES	8^ο
COURSE TITLE	RAPID PROTOTYPING SYSTEMS		
INDEPENDENT TEACHING ACTIVITIES		WEEKLY TEACHING HOURS	CREDIT UNITS
	Lectures	4	5
	TOTAL	4	
COURSE TYPE	Μάθημα Ειδικότητας, Επιλογής Υποχρεωτικό (Επιστημονικής Περιοχής)		
PREREQUISITE COURSES:			
LANGUAGE OF TEACHING AND EXAMS:	Greek		
THE COURSE IS OFFERED TO ERASMUS STUDENTS	YES (in English)		
DIGITAL COURSE PAGE (URL)			

1. LEARNING OUTCOMES

Learning Outcomes

Designers can experiment with their new ideas without limiting their creativity with the use of the new technology of rapid prototyping. Especially, in the fashion industry, where design and creativity are the two most important features, we see products resulting from 3D Printing to attract attention. The course aims to introduce students to modern techniques prosthetic fabric for clothing and jewelry, using direct and indirect methods of additive manufacturing.

After attending the course students should:

- Know and understand the most well-known Additive manufacturing technologies and the basic applications for prototyping
- Know and understand the process of making pieces with additive manufacturing as well as the various forms of the raw material used.
- Can identify clothing products and accessories that resulted from the 3D printing process
- Know the preparatory work and the STL files as well as the preparatory work of processing and preparing the model for the final use.

General Skills

- Search, analyze and synthesize data and information, using both necessary technologies.
- Teamwork.
- Project Planning and Management.
- Promoting free, creative and inductive thinking.

1. COURSE CONTENT

- **Introduction to rapid prototyping**

Definition

History of rapid prototyping

Data Formats

STL files

Information flow

Accuracy of Methods

Classification of methods

- **Rapid Prototyping Technologies**

Stereolithography- SLA

Selective Laser Sintering- SLS

Selective Heat Sintering - SHS

Laminated Object Manufacturing- LOM

Fused Deposition Modeling - FDM

Inkjet Printing

Comparison of Methods

- **Design for additive manufacture of clothing products & accessories**

Design for production and assembly

The unique capabilities of additive manufacturing

Exploring creative design

CAD tools for additive manufacturing clothing products & fashion accessories

Design synthesis methods

- **Applications of additive manufacturing technologies in the clothing industry**

Case studies

Advantages

Disadvantages

Challenges - Concerns

Consumer perception towards construction through additive manufacturing

Mass personalization (customisation) through additive manufacturing or a gap with this new technology;

Possible future directions, plans, processes

Sustainability - Zero Waste & 3D Printing for Fashion industry

1. TEACHING AND LEARNING METHODS - EVALUATION

TEACHING METHOD.	Theoretical teaching with discussion and active student participation. During the lesson power point presentations are made. Live 3D printing of student patterns with FDM and SLA machines.
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	Presentation of specialized equipment. Electronic Self-Assessment Exercises. Communication with students via e-mail, on its website

TEACHING ORGANIZATION	<p style="text-align: center;">Σ</p> <p style="text-align: center;"><i>Activity Semester project workload</i></p> <p style="text-align: center;"><i>Lectures 40</i></p> <p style="text-align: center;"><i>Practice Exercise 0</i></p> <p style="text-align: center;"><i>Laboratory Exercise 0</i></p> <p style="text-align: center;"><i>Writing laboratory reports and projects 0</i></p> <p style="text-align: center;"><i>Independent Study 85</i></p> <p style="text-align: center;">Course Total <i>(25 ώρες φόρτου ανά ΔΜ) 125</i></p>
STUDENT EVALUATION	<p>The final grade of the course is formed by student performance in the theoretical part. The evaluation of the course is formulated in writing final exam as well as from participation in a group work in the form of a project.</p> <p>1. The written final examination of the theoretical part includes:</p> <ul style="list-style-type: none"> - Multiple choice questions - Solving problems of application of the knowledge that acquired. - Comparative evaluation of theory elements. <p>2. Group work is optional, given at the beginning of the semester and is completed at the end of the lectures with presentation of the results by its students team in the classroom</p>

1. RECOMMENDED BIBLIOGRAPHY

Συγγράμματα μέσω του συστήματος ΕΥΔΟΞΟΣ
Gibson, I., Rosen, D., & Stucker, B. (2017). Τεχνολογίες Προσθετικής Κατασκευής. Εκδόσεις Κριτική ΑΕ, Κωδικός για τον Εύδοξο, [68379767]
Μπιλάλης, Ν., Μαραβελάκης, Ε., Συστήματα CAD/CAM και τρισδιάστατη μοντελοποίηση - Νέα αναθεωρημένη έκδοση, Κωδικός Βιβλίου στον Εύδοξο: 41955474, Εκδόσεις Κριτική
Συγγράμματα που διανέμονται μέσω του Πανεπιστημίου ή της ηλεκτρονικής σελίδας του μαθήματος
Σημειώσεις και διαφάνειες Θεωρίας, Κιλκίς.
Συμπληρωματική προτεινόμενη βιβλιογραφία
Plate, K., (2017). Printed to the Nines: Why 3D-Printing will transform the Fashion Industry. New Degree Press
Bitonti, F., (2019). 3D Printing Design: Additive manufacturing and the materials revolution. Bloomsbury Visual Arts
Alyson Vanderploeg, Seung-Eun Lee & Michael Mamp (2017) The application of 3D printing technology in the fashion industry, International Journal of Fashion Design, Technology and Education, 10:2, 170-179, DOI: [10.1080/17543266.2016.1223355](https://doi.org/10.1080/17543266.2016.1223355)
Rapid Prototyping Journal
International Journal of Advanced Manufacturing Technology
J. of Materials Processing Technology

SCIENCE AND TECHNOLOGIES OF ADVANCED MATERIALS

(1) GENERAL

SCHOOL	DESING SCIENCES
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ACADEMIC UNIT	CREATIVE DESIGN AND CLOTHING		
LEVEL OF STUDIES	UNDERGRADUATE		
COURSE CODE	802	SEMESTER	8 th
COURSE TITLE	SCIENCE AND TECHNOLOGIES OF ADVANCED MATERIALS		
INDEPENDENT TEACHING ACTIVITIES	WEEKLY TEACHING HOURS	CREDITS	
Lectures	4	5,5	
COURSE TYPE	General background		
PREREQUISITE COURSES:	No		
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek		
IS THE COURSE OFFERED TO ERASMUS STUDENTS	Yes in English		
COURSE WEBSITE (URL)	e-learning platform (cdc.ihu.gr)		

(2) LEARNING OUTCOMES

Learning outcomes

The course learning outcomes, specific knowledge, skills and competences of an appropriate level, which the students will acquire with the successful completion of the course are described.

After successfully attending the course students will have:

- Knowledge and understanding of the composition and properties of advanced textile materials
- Knowledge and understanding of new technologies in manufacturing smart textiles.
- Knowledge and understanding of new technologies in the manufacture of cosmetic textiles (cosmetotextiles)
- Knowledge of special purpose finishes
- Experience in searching for bibliography, writing essays and presenting them

General Competences

Taking into consideration the general competences that the degree-holder must acquire (as these appear in the Diploma Supplement and appear below), at which of the following does the course aim?

General competences that the degree-holder will acquire:

- Search for, analysis and synthesis of data and information, with the use of the necessary technology.
- Respect for the natural environment.
- Production of free, creative and inductive thinking.
- Working independently.
- Team work.

(3) SYLLABUS

- Special Purpose Fibers
- Elastomeric fibers
- Fibers resistant to heat, fire, chemicals
- Optical fibers
- Ceramic fibers
- Aesthetic finishes
- Special purpose finishes
- Composite materials
- Fibers used in the manufacture of composite materials
- Composite materials in the manufacture of protective clothing and anti-ballistic equipment
- Smart materials and fabrics and their applications
- Cosmetotextiles-Fabrics with cosmetic properties

(4) TEACHING and LEARNING METHODS - EVALUATION

DELIVERY	Face-to-face
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY	Use of ICT in teaching, laboratory education, communication with students

TEACHING METHODS

The manner and methods of teaching are described in detail.

Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, placements, clinical practice, art workshop, interactive teaching, educational visits, project, essay writing, artistic creativity, etc.

The student's study hours for each learning activity are given as well as the hours of non-directed study according to the principles of the ECTS

<i>Activity</i>	<i>Semester workload</i>
Lectures,	50
Team work	30
Essay writing	10
Study and analysis of bibliography	
Self-study	32,5
Course total	162,5

STUDENT PERFORMANCE EVALUATION

Description of the evaluation procedure

Language of evaluation, methods of evaluation, summative or conclusive, multiple choice questionnaires, short-answer questions, open-ended questions, problem solving, written work, essay/report, oral examination, public presentation, laboratory work, clinical examination of patient, art interpretation, other

Specifically-defined evaluation criteria are given, and if and where they are accessible to students.

Language of the evaluation methods: Greek

- Written Essay
- Report
- Oral examination
- Public Presentation

(5) ATTACHED BIBLIOGRAPHY

1. Dyeing and finishing technology, D. J. Hill, M. E. Hall, D. A. Holmes,
M. Lomas, K. Padmore, Translated by Th.Peppas, S. Vasileiadis, Athens 2003
2. Chemistry and Technology of color, I. Eletheriadi, E. Tsatsaroni, N. Nikolaidis Publications
KALLIPOS e-book
3. Wearable Electronics and Smart Textiles: A Critical Review, Matteo Stoppa and Alessandro
Chiolero, *Sensors* 2014, 14(7), 11957-11992
4. Factional finishes for textiles, Roshan Paul, a volume in Woodhead Publishing in Textiles,
2015
5. J. McCann, D. Bryson, Smart clothes and wearable technology, 2009.
6. Medical Textiles and Biomaterials for Healthwear, 2004
7. Textiles I, Fiber and Thread Technology, Sarah J. Kadolph, ION Publications, 2010
8. Textiles II, Fabric Technology, Dyeing and Finishing, Sarah J. Kadolph, ION Publications,
2010
9. X. Tao, Smart Fibres, Fabrics and Clothing, Woodhead Publishing Ltd (2001)
10. D. Heywood, Textile Finishing, The Society of Dyers and Colourists (2003)
11. 1. M Raheel: Protective Clothing Systems and Materials, Marcel Dekker, Inc., 1994.
12. Online bibliography renewed on an annual basis.

LIFE CYCLE AND RESOURCES MANAGEMENT SYSTEMS

1. ΓΕΝΙΚΑ

SCHOOL	DESIGN SCIENCES		
DEPARTMENT	CREATIVE DESIGN & CLOTHING		
LEVEL OF STUDIES	UNDERGRADUATE		
COURSE CODE	803	ΕΞΑΜΗΝΟ ΣΠΟΥΔΩΝ	8^ο
COURSE TITLE	Life Cycle and Resources Management Systems		
INDEPENDENT TEACHING ACTIVITIES	WEEKLY TEACHING HOURS		CREDIT UNITS

Lectures	4	5
Εργαστηριακές Ασκήσεις		
Total	4	
<i>Προσθέστε σειρές αν χρειαστεί. Η οργάνωση διδασκαλίας και οι διδακτικές μέθοδοι που χρησιμοποιούνται περιγράφονται αναλυτικά στο (δ).</i>		
COURSE TYPE	Μάθημα Ανάπτυξης Δεξιοτήτων	
PREREQUISITE COURSES:		
LANGUAGE OF TEACHING AND EXAMS:	Greek	
THE COURSE IS OFFERED TO ERASMUS STUDENTS	Yes (in English)	
DIGITAL COURSE PAGE (URL)		

1. LEARNING OUTCOMES

Learnign Outcomes
<p>The aim of the course is to introduce basic principles of CAM information systems in fashion (ERP, CRM και e-Business). By the end of the course the students are expected to:</p> <ul style="list-style-type: none"> • Understand and control information related to product lines (season and fabric management). • Understand and control information related to strategic level choices (production commands, command analysis per order and customer life cycle). •
General Skills
<i>Λαμβάνοντας υπόψη τις γενικές ικανότητες που πρέπει να έχει αποκτήσει ο πτυχιούχος (όπως αυτές αναγράφονται στο Παράρτημα Διπλώματος και παρατίθενται ακολούθως) σε ποια / ποιες από αυτές αποσκοπεί το μάθημα;.</i>

<p>Αναζήτηση, ανάλυση και σύνθεση δεδομένων και πληροφοριών, με τη χρήση και των απαραίτητων τεχνολογιών Προσαρμογή σε νέες καταστάσεις Λήψη αποφάσεων Αυτόνομη εργασία Ομαδική εργασία Εργασία σε διεθνές περιβάλλον Εργασία σε διεπιστημονικό περιβάλλον Παράγωγή νέων ερευνητικών ιδεών</p>	<p>Σχεδιασμός και διαχείριση έργων Σεβασμός στη διαφορετικότητα και στην πολυπολιτισμικότητα Σεβασμός στο φυσικό περιβάλλον Επίδειξη κοινωνικής, επαγγελματικής και ηθικής υπευθυνότητας και ευαισθησίας σε θέματα φύλου Άσκηση κριτικής και αυτοκριτικής Προαγωγή της ελεύθερης, δημιουργικής και επαγωγικής σκέψης Άλλες... </p>
<p>Search, analyze and synthesize data and information, using the necessary technologies</p> <p>Individual work</p> <p>Teamwork</p> <p>Decision making.</p>	

<p>1. COURSE CONTENT</p>
<p>Introduction and practice with information systems that are used in fashion. Introduction to system's interface. System menus (Fabrics, standards, samples, customers, suppliers, warehouses, employers, fixed assets, finance). Products, partners, orders, resources, finance documents, payroll management. Analysis of various system tools (filters, statistics). Warehouse tools (Product weight, balances, specification tree, dimensions). Management forms (basic, secondary and search forms). Commands. Image management and editing. Order and production commands management.</p>

1. TEACHING AND LEARNING METHODS - EVALUATION

TEACHING METHOD.	Face to face theoretical teaching in class and laboratory.								
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	DVD for theory PC for creating forms and quality management systems processes.								
TEACHING ORGANIZATION	<table border="0"> <tr> <td><i>Activity</i></td> <td><i>Semester Workload</i></td> </tr> <tr> <td>Lectures</td> <td>50</td> </tr> <tr> <td>Production management processes execution</td> <td>75</td> </tr> <tr> <td>Total</td> <td>125</td> </tr> </table>	<i>Activity</i>	<i>Semester Workload</i>	Lectures	50	Production management processes execution	75	Total	125
<i>Activity</i>	<i>Semester Workload</i>								
Lectures	50								
Production management processes execution	75								
Total	125								

STUDENT EVALUATION	Final exam (100%) which consists of - Production management processes execution - Order management simulation
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1. RECOMMENDED BIBLIOGRAPHY

<p>- Προτεινόμενη Βιβλιογραφία:</p> <ul style="list-style-type: none"> • Διοικητικά Πληροφοριακά Συστήματα, Γιαννακόπουλος Δ., Παπουτσής Ι., Σύγχρονη Διδακτική, Αθήνα, 2012 • Εγχειρίδιο συστήματος ERP Πλέξις, Computer Life, 2001 • Εφαρμοσμένο Παράδειγμα Διαχείρισης Παραγωγής Μέσω ERPe-Plexis, Τουλουμτζίδου Ι, Καρυπίδης Μ., Κιλκίς, 2012 <p>Συναφή επιστημονικά περιοδικά:</p>
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Entrepreneurship and Innovation

1. ΓΕΝΙΚΑ

SCHOOL	DESIGN SCIENCES		
DEPARTMENT	CREATIVE DESIGN AND CLOTHING		
LEVEL OF STUDIES	Undergraduate		
COURSE CODE	804	SEMESTER	⁸
COURSE TITLE	Entrepreneurship and Innovation		
INDEPENDENT TEACHING ACTIVITIES <i>in case the credits are awarded in separate parts of the course e.g. Lectures, Laboratory Exercises, etc. If the credits are awarded uniformly for the whole course, indicate the weekly teaching hours and the total number of credits.</i>	WEEKLY TEACHING HOURS	CREDIT UNITS	
Lectures	4	5	
Εργαστηριακές Ασκήσεις			
TOTAL	4		
<i>Προσθέστε σειρές αν χρειαστεί. Η οργάνωση διδασκαλίας και οι διδακτικές μέθοδοι που χρησιμοποιούνται περιγράφονται αναλυτικά στο 4.</i>			
COURSE TYPE <i>Background, General Knowledge, Scientific Area, Skills Development</i>	Scientific area		

PREREQUISITE COURSES:	-
LANGUAGE OF TEACHING AND EXAMS:	Greek
THE COURSE IS OFFERED TO ERASMUS STUDENTS	Yes (In English)
Digital course page (URL)	

1. LEARNING OUTCOMES

<p>Μαθησιακά Αποτελέσματα</p> <p><i>Περιγράφονται τα μαθησιακά αποτελέσματα του μαθήματος οι συγκεκριμένες γνώσεις, δεξιότητες και ικανότητες καταλλήλου επιπέδου που θα αποκτήσουν οι φοιτητές μετά την επιτυχή ολοκλήρωση του μαθήματος. Συμβουλευτείτε το Παράρτημα Α</i></p> <ul style="list-style-type: none"> • <i>Περιγραφή του Επιπέδου των Μαθησιακών Αποτελεσμάτων για κάθε ένα κύκλο σπουδών σύμφωνα με Πλαίσιο Προσόντων του Ευρωπαϊκού Χώρου Ανώτατης Εκπαίδευσης</i> • <i>Περιγραφικοί Δείκτες Επιπέδων 6, 7 & 8 του Ευρωπαϊκού Πλαισίου Προσόντων Διά Βίου Μάθησης</i> <p><i>και Παράρτημα Β</i></p> <ul style="list-style-type: none"> • <i>Περίληπτικός Οδηγός συγγραφής Μαθησιακών Αποτελεσμάτων</i>
<p>Learning Outcomes</p> <p>The learning outcomes of the course are described here, the specific knowledge, skills and abilities of an appropriate level that students will acquire after the successful completion of the course. Consult Appendix A.</p> <ul style="list-style-type: none"> • Description of the Level of Learning Outcomes for each course according to the Qualifications Framework of the European Higher Education Area • Descriptive Indicators of Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and Annex B. • Summary Guide for writing Learning Outcomes <p>The course aims to cultivate students' entrepreneurial mentality, encourage innovation and develop a philosophy more friendly to entrepreneurship and innovation.</p> <p>In this frame, it will help in</p> <ol style="list-style-type: none"> a) the development of the business impulse, b) training students for the skills required to start a business and manage its growth; c) in the development of business capacity and in identifying and seizing entrepreneurial opportunities. <p>Case studies from the field of clothing companies, in Greece and worldwide, will also play an important role. After completing the course, the student will be able - among other things - to develop his or her own business idea or collaborate with a third party business idea, contributing in the success through innovation, as well as being aware of copyright issues of his or her work.</p>
<p>General Skills</p> <p><i>Λαμβάνοντας υπόψη τις γενικές ικανότητες που πρέπει να έχει αποκτήσει ο πτυχιούχος (όπως αυτές αναγράφονται στο Παράρτημα Διπλώματος και παρατίθενται ακολούθως) σε ποια / ποιες από αυτές αποσκοπεί το μάθημα;.</i></p>

<p>Αναζήτηση, ανάλυση και σύνθεση δεδομένων και πληροφοριών, με τη χρήση και των απαραίτητων τεχνολογιών</p> <p>Προσαρμογή σε νέες καταστάσεις</p> <p>Λήψη αποφάσεων</p> <p>Αυτόνομη εργασία</p> <p>Ομαδική εργασία</p> <p>Εργασία σε διεθνές περιβάλλον</p> <p>Εργασία σε διεπιστημονικό περιβάλλον</p> <p>Παράγωγή νέων ερευνητικών ιδεών</p>	<p>Σχεδιασμός και διαχείριση έργων</p> <p>Σεβασμός στη διαφορετικότητα και στην πολυπολιτισμικότητα</p> <p>Σεβασμός στο φυσικό περιβάλλον</p> <p>Επίδειξη κοινωνικής, επαγγελματικής και ηθικής υπευθυνότητας και εναισθησίας σε θέματα φύλου</p> <p>Άσκηση κριτικής και αυτοκριτικής</p> <p>Προαγωγή της ελεύθερης, δημιουργικής και επαγωγικής σκέψης</p>
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General Abilities

Taking into account the general skills that the graduate must have acquired (as they are listed in the Diploma Supplement and are listed below), which of them is intended for the course.

- Search, analysis and synthesis of data and information, using the necessary technologies
- Adaptation to new situations
- Decision making
- Autonomous work
- Teamwork
- Working in an international environment
- Work in an interdisciplinary environment
- Generation of new research ideas
- Project design and management
- Respect for diversity and multiculturalism
- Respect for the natural environment
- Demonstration of social, professional and moral responsibility and sensitivity to gender issues
- Exercise criticism and self-criticism
- Promoting free, creative and inductive thinking

1. COURSE CONTENT

The concept and content of Entrepreneurship and Innovation, Innovation as a strategy and as a competitive advantage, concept and characteristics of Innovation Systems, Innovation and Competitiveness, Innovation as a Management Process, Business Clusters, Medium-sized Enterprises and Innovation, Knowledge Management as the prerequisite for successful business activity, the Greek reality, Case Studies of Clothing Companies, Intellectual Property and Copyright Management.

1. TEACHING AND LEARNING METHODS - EVALUATION

COURSE DELIVERY METHOD	Face to face in class
<i>Face to face, distance education, etc.</i>	
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	Media Learning Process Support through the website

<p><i>Use of ICT in Teaching, in Laboratory Education, in Communication with students</i></p>										
<p>TEACHING ORGANIZATION</p> <p><i>The way and teaching methods are described in detail. Lectures, Seminars, Laboratory Exercise, Field Exercise, Bibliography study & analysis, Tutoring, Practice (Placement), Clinical Exercise, Art Workshop, Interactive teaching, Study visits, Study work, project, creation etc.</i></p> <p><i>The student study hours for each learning activity are listed as well as the non-guided study hours so that the total semester workload corresponds to the ECTS standards.</i></p>	<p>Activity Φόρτος Εργασίας Εξαμήνου</p> <table border="0"> <tr> <td>Lectures</td> <td>52</td> <td></td> </tr> <tr> <td>Study and analysis of literature</td> <td></td> <td>12</td> </tr> <tr> <td>Study/ Teamwork</td> <td></td> <td>61</td> </tr> </table> <p>Course Total</p> <p>(25 hours of load per Credit Unit) 125</p>	Lectures	52		Study and analysis of literature		12	Study/ Teamwork		61
Lectures	52									
Study and analysis of literature		12								
Study/ Teamwork		61								
<p>STUDENT EVALUATION</p> <p><i>Description of the evaluation process</i></p> <p><i>. Assessment Language, Assessment Methods, Formative or Concluding, Multiple Choice Test, Short Answer Questions, Essay Development Questions, Problem Solving, Written Assignment, Essay / Report, Oral Exam, Public Presentation, Laboratory work, Patient's Clinical Exam, Artistic Interpretation, Other/Others</i></p> <p><i>Explicitly defined assessment criteria are stated and if and where they are accessible to students</i></p>	<p>Teamwork presentation (30%)</p> <p>Written Final Exam (70%)</p>									

1. RECOMMENDED BIBLIOGRAPHY

-Προτεινόμενη Βιβλιογραφία :
-Συναφή επιστημονικά περιοδικά:

1. Karagiannis E.G. –Bakouros IL, “Innovation and Entrepreneurship. Theory-Practice »Sofia Publications, 2010.
2. Piperopoulos, GP "Entrepreneurship, Innovation & Business Clusters", Stamouli Publications, 2008.
3. Hatzikonstantinou G., Goniadis, H., "Entrepreneurship and Innovation", Gutenberg Publications, 2009.
4. Bessant J. - Tidd J., "Entrepreneurship and Innovation", Giola Publications, 2018.
5. Kotsios P., "Entrepreneurship, Innovation: conception, design, implementation and operation", Kotsios Publications, 2015.
6. Fayolle A., “Theory and Practice. Practical applications to learn business ", Propompos Publications, 2019.
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