



UNIVERSITY OF THE AEGEAN
SCHOOL OF HUMANITIES
DEPARTMENT OF PRESCHOOL EDUCATION AND EDUCATIONAL DESIGN

MASTER DEGREE

«Didactic of Sciences and ICT in Education: Interscientific approach»

ENVELOPE FOR THE COURSE

Title of subject: «Modern Theories for Learning and Organization of Educational Structures»
Code: X2

Instructors:

Professor Anastasios Kodakos, University of the Aegean
Assistant Professor Panagiotis J. Stamatis, University of the Aegean

Assistant of the course: Petroula-Exakousti Aggelakou, M.Ed., Ph.D.c.

This syllabus has contacted for the Postgraduate Studies Programme «**Didactic of Sciences and ICT in Education: Interscientific approach**» by the instructors of the subject.

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Contents

1. General contents of the course

The general aim of the course is the deepening in issues of learning, organization and development of educational structures, providing emphasis on theories of complexity and difference as well as on their pedagogical implementation in different organizational and functioning levels of the Greek educational system.

For the modules developed by Prof. A. Kodakos.

The first part of the course focuses on the systemic approach of the phenomena, structures and processes of learning and knowledge. Furthermore, the following specific objectives are discussed:

1. Delimitation and interfaces of learning sector of school development.
2. The conceptualization of basic systemic terms of learning and organization in different fields of complexity (system, organization, structure, communication, memory, knowledge, intelligence).
3. The organization, management and reproduction of educational structures, processes and learning environments.
4. The development of individual and organizational learning models in complex educational environments.
5. The development of an anthropological, social and cultural well-founded perception of learning processes and structures.
6. The development of technology, the association of roles, structures and learning environments.

For the modules developed by Assist. Prof. P. J. Stamatis.

The high demands for a modern education, leading to a radically different view of development and improving of structures and learning procedures. In the framework of the second part of this course which is consisted by five modules instructed by Assistant Professor P. J. Stamatis, approaches of learning theories and their impact on modern-school education system are developed as parts of their influences in modern educational system and specifically to the fields of teaching, staff development, school leadership/management school and school climate. Consequently, the purpose of these modules is the understanding of the learning processes in all levels of a school unit. Generally, under these themes, seeking:

1. The conceptual clarification of basic pedagogical terms
2. An overview of the learning process
3. The approach of the main theories and models of learning
4. Understanding the effects of learning theories in modern education
5. The proposals for the development of strategies for improvement of modern learning process

2. Modules

By Professor A. Kodakos the following modules will be instructed:

1. Theories of Complexity
2. School Theories
3. Theories and Models of Educational Development
4. Theories, Structures and Learning Levels
5. Individual and Organizational Learning: Knowledge, Memory, Intelligence: Description, Collective Memory, Reflection
6. Structural Coupling of Individual and Organizational Learning
7. Theories and Models of Development of the Individual and Organizational Knowledge.

By Assistant Professor P.J. Stamatis the following modules will be instructed:

8. Pedagogy and Educational Sciences: basic terms and concepts.
9. Learning theories I: behaviorism and learning, motivation and psychoanalytic theories in education.
10. Learning theories II: Social and cognitive learning theories - Constructivism: discovered knowledge, experiential learning and group cooperation.
11. Learning theories III: Gestalt learning theory and field theory: Personalized learning and distance learning: new learning environments.
12. Effective Learning Strategies in Educational and Administrative Process of School Units: "Learning counseling".

3. Special aims of each module

For each module instructed by Professor A. Kodakos the following special aims are focused:

Module 1

Conceptual clarification of key terms of systems theory.

Module 2

Observation, description and understanding of systemic parameters of the organization of "School".

Module 3

Development of interconnection capacity of Systemic and Pedagogical theories and models of School Improvement.

Module 4

Approach of the phenomenon of learning at different organizational levels and at different levels of complexity.

Module 5

Awareness for development of observation and discrimination criteria as well as description of learning styles.

Module 6

Ability of discrimination, organization and observation of an intermediate learning environment.

Module 7

Development of a new perception and “re-understanding” of the phenomenon of knowledge as the ability of schools in order to use elements of complex systems environments.

For each module instructed by Assistant Professor P. J. Stamatis the following special aims are focused:

Module 8

Identify historical and epistemological context of Pedagogical Science and Sciences of Education and accessed quotes basic terms and concepts of these fields.

Module 9

Approximate the basics of classical conditioning and operant learning theories, theory of motivation and learning psychoanalytic theory.

Module 10

Access to social and cognitive theories of learning and to develop the concept and effects of constructivism in modern educational process, with emphasis on discovered, experiential learning and group cooperation.

Module 11

Approximate the gestalt learning theory and field theory with emphasis on personality theories and their influence on the idea of personalized learning and distance learning. Also, to access the new learning environments, conditions that shaping them and means which contributing to consolidation and their efficiency.

Module 12

In the context of establishing a "learning counseling" will be discussed the modern effective learning strategies in Educational and Administrative process of school unit, the characteristics of learning process that appear in it, in education, teaching and administrative level, emphasizing to the dynamics developed by the peculiarities of the members of the school community and the wider work environment; and the factors that contribute to hindering the learning process.

4. Teaching Methodology

Due to the specificity of this course in every three hours teaching is suggesting:

1. The use of two 45 minutes sessions for instruction and/or essays presentations,
2. A class session of 45 minutes for group discussion and self-directed learning; and development laboratory, research and practical applications of the research material.
3. Furthermore, possibilities of distance learning and e-learning procedures will be exploited.

5. Timetable

For modules which will be developed by Professor A. Kodakos:

| Θεματική ενότητα | Μήνας | Διδακτικός χρόνος |
|------------------|----------|--------------------|
| Module 1 | February | 3 sessions (3X45') |
| Module 2 & 3 | March | 3 sessions (3X45') |
| Module 4 & 5 | March | 3 sessions (3X45') |
| Module 6 | March | 3 sessions (3X45') |
| Module 7 | March | 3 sessions (3X45') |

For modules which will be developed by Assistant Professor P. J. Stamatis:

| Modules | Month | Sessions |
|------------------------|----------|--------------------|
| Module 8 | February | 3 sessions (3X45') |
| Module 9 | February | 3 sessions (3X45') |
| Module 10 | March | 3 sessions (3X45') |
| Module 11 | March | 3 sessions (3X45') |
| Module 12 | March | 3 sessions (3X45') |
| Presentation of essays | April | 9 sessions (6X45') |

6. Students' assessment

The attending of lectures, the preparation and presentation of written essays, the study of relevant literature, the participation in workshops, the development of research and practical applications or alternatively the written examination, combined with the active participation in the learning process, consist the key ways of postgraduate students' assessment.

7. Material

As posted on the course website.

8. Material of modules presentation

Articles of Assistant Professor P. J. Stamatis available on

<http://www.rhodes.aegean.gr/tepaes/didaskontes/stamatis/index.htm>

9. Bibliography (basic)

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Articles

Articles of Professor A. Kodakos will be available on the site of this course.

Articles of Assistant Professor P. J. Stamatis are available on

<http://www.rhodes.aegean.gr/tepaes/didaskontes/stamatis/index.htm>