Department of Materials Science & Technology (MST)

Graduate Studies

1/11/2013
Staff Members

G. Armatas
M. Chatzinikolaidou
G. Fytas
M. Kafesaki
G. Kioseoglou
G. Kopidakis
A. Mitraki
D. Papazoglou

N. Pelekanos
G. Petekidis
I. Remediakis
P. Savvidis
K. Tokatlidis
M. Vamvakaki
K. Velonia
D. Vlassopoulou

N. Chronis, S. Tzortzakis
V. Koutsos, A. Lyberatos

Director of graduate studies:
G. Kioseoglou
Research Areas

Bio-materials
Velonia, Mitraki, Tokatlidis, Chatzinikolaidou

Computational materials science
Kopidakis, Remediakis, Kafesaki

Optoelectronics and magnetic materials
Papazoglou, Pelekanos, Savvidis, Kioseoglou

Materials chemistry
Armatas, Vamvakaki

Polymer and colloid science
Fytas, Petekidis, Vlassopoulos
**MST (TETY)**

**Administrative Personnel:**

A. Skouradaki (head)
B. Stratigis (in charge of graduate program)
M. Partali (undergraduates)

**Technical Personnel:**

S. Stamatiadis, D. Stefanakis (computer center, web page)
D. Theodoridis, E. Tylianakis, E. Spanakis (labs)
MS and PhD programs in Materials Science and Technology

**Areas:**

- Hard materials (optoelectronics, magnetic)
- Soft materials (polymers, colloids)
- Biomaterials and biomolecules
- Computational materials science

**Goal:**
Solid background for successful international career
Excellence in research
First-class training in classroom and laboratory
Learn to ask questions to pursue your goals
Total number of students since 2004: 109 (52 PhDs, 57 Masters)

Degrees offered to date: 17 PhDs and 19 MS

Discontinued or dropouts: 20
Masters program -- requirements

- Courses
- Departmental Colloquia
- Teaching Assistantship
  - Assistantship in exams
- Dissemination: Publications / conferences
- Thesis / defense
## COURSES

<table>
<thead>
<tr>
<th>REQUIRED</th>
<th>ELECTIVE</th>
<th>THESIS</th>
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<tbody>
<tr>
<td>1. Hard Materials</td>
<td>• From TETY and other departments</td>
<td>Master Thesis during the 2(^{nd}) year of studies</td>
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<tr>
<td>2. Computational Materials Science</td>
<td>• The registration requires the signature of the director of graduate studies</td>
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<td>3. Soft Matter</td>
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<td>4. Biomaterials – Biomolecules</td>
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<td><strong>40 ECTS</strong></td>
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- **20 ECTS**
- 10 ECTS can be from publications (5 each), posters and oral presentations (2 each) in conferences and workshops

**60 ECTS**
• **When**: Fridays 16:00
• **Where**: Seminar Room 3rd floor physics building

**Contact**
D. Papazoglou (dpapa@materials.uoc.gr)

check also other UoC depts. and FORTH
ΠΑΝΕΠΙΣΤΗΜΙΟ ΚΡΗΤΗΣ

ΔΙΑΤΜΗΜΑΤΙΚΟ ΜΕΤΑΠΤΥΧΙΑΚΟ ΠΡΟΓΡΑΜΜΑ ΣΠΟΥΔΩΝ ΣΤΗΝ «ΟΠΤΙΚΗ ΚΑΙ ΟΡΑΣΗ»

MST contact: D. Papazoglou

http://optics-vision.med.uoc.gr
PhD program -- requirements

- Courses (optional)
- Qualifying exams (prelims)
- Departmental Colloquia
- Teaching Assistantship
- Assistantship in exams
- Yearly reports
- Publications / conferences
- Thesis / defense
**Examination:**

a) Presentation of thesis topic - work done / planned
b) Presentation of topic other than thesis (to be given to the candidate 3 weeks prior to exam). To be decided by the director of graduate studies.

Questions/discussion

- Total time not exceeding 60 min
- Successful completion of both is required.
- In case of failure, a second examination is possible.

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**Teaching Assistantship**

- Labs: experiments, reports
- Courses: homework problems
- Exam supervision: January, June, September (mandatory)
Rheology to the Rescue: Applying Complex Fluids to Solve Problems in Bio-Medicine