MASTER PROGRAM IN INDUSTRIAL PHARMACY

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Contents

- History
- Outline of the program
- Some numbers...
- What is next?
- Why to change?
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The Faculty of Pharmacy was established in 1843

- 3 Departments (Pharmaceutical Chemistry, Pharmacognosy, Pharmaceutical Technology)
- PhD was the first postgraduate degree
- MSc studies were established much later (1993-1994)
- More than one MSc per Department
The Dpt of Pharm. Tech. coordinates 2 Msc degrees

- Clinical Pharmacy
- **Industrial Pharmacy (1998)** which has combined 3 previously separate MSc programs running from 1994 (Pharmaceutical Technology, Cosmetology and Biopharmaceutics)
MSc in INDUSTRIAL PHARMACY

Admission Requirements

- Bachelor in Pharmacy and related Sciences e.g. Chemistry, Biology, Chemical Engineering
- Evaluation of the CVs
- Interview
MSc in INDUSTRIAL PHARMACY

Curriculum (2 years)
Courses for 2 semesters and research for another 2.

- Physical Pharmacy
- Quality Control, GMP-GLP
- Statistics
- Pharmaceutical Analysis
- Pharmaceutical Microbiology
- Advanced Pharmaceutical Technology
- Advanced Biopharmaceutics-Pharmacokinetics
- Advanced Cosmetology
- Research Methodology

and one of the following:

- Novel Drug Delivery Systems-Dosage Form Design
- Quality Control and Evaluation of Topical Products
- Clinical Pharmaceutical Analysis
### SOME NUMBERS

Students per academic year

<table>
<thead>
<tr>
<th>Academic Year</th>
<th>Students</th>
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<tbody>
<tr>
<td>1998-1999</td>
<td>21</td>
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<td>1999-2000</td>
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<td>2005-2006</td>
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<td>2006-2007</td>
<td>14</td>
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<td>2007-2008</td>
<td>7</td>
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<tr>
<td>2008-2009</td>
<td>9</td>
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</table>

**TOTAL NUMBER OF STUDENTS 1998-2008: 137**

**NUMBER OF STUDENTS EXPECTED TO HAVE GRADUATED: 119**

**GRADUATED: 101**
SOME NUMBERS

Types of Bachelors per academic year

During the last 3 academic years:

- Pharmacists 50%
- Chemists 18%
- Chemical Engineers 18%
- Biologists 9%
- Materials Science 6%
WHAT IS NEXT? CHANGE!

FROM THE SILO TOWARDS THE LATTICE MODEL

Modified from H. Buckman, Building a knowledge driven organization
WHAT IS NEXT?

EMOTIONAL INTELLIGENCE!

Logical / Mathematical IQ

Emotional Intelligence EI

- Linguistic - Use of language
- Spatial - Other way to view things
- Musical
- Kinesthetic - Movement
- Interpersonal - Relationships
- Intrapersonal - Know yourself

Prof. H. Gardner from T. Peters “The Circle of Innovation”
WHAT IS NEXT?

EMOTIONAL INTELLIGENCE!

- Self Awareness
  - Self-Confidence
  - Emotional Self-Awareness
  - Accurate Self Assessment

- Social Awareness
  - Empathy
  - Organizational Awareness
  - Service Orientation

- Self Management
  - Self-Control
    - Trustworthiness
    - Conscientiousness
    - Adaptability
    - Achievement
    - Drive to Succeed
    - Initiative

- Relationship Management
  - Influence
    - Inspirational Leadership
    - Developing Others
    - Influence
    - Building Bonds
    - Teamwork & Collaboration

www.psychometric-success.com/emotional-intell
WHY TO CHANGE?

- FROM SILO COMPLEX ORGANIZATIONS which easily captured market shares in a non-competitive environment.

- TOWARDS LEAN, KNOWLEDGE, SYSTEM FOCUSED ORGANIZATIONS which are based on value added processes to deliver results to their customers.
STRENGTHEN THE EI

- Hire for attitude, train for skill
  
  *(P. Carobonera “The fast Company”)*

- Hire for intelligence (all kinds), train for skill
  
  *(Prof. H. Gardner from T. Peters “The Circle of Innovation”)*

- Hire for attitude, train for whatever
  
  *(T. Peters “The Circle of Innovation”)*
CONCLUSIONS ...MIND THE SHIFT!

- FROM THE ENGINE ("HARDWARE")
  
  PRODUCT DRIVEN ORGANISATIONS
  MANUFACTURING EMPLOYEE

  ↓

- TO THE HUMAN CAPITAL ("BRAINS")
  
  KNOWLEDGE DRIVEN ORGANISATIONS
  KNOWLEDGE EMPLOYEE
THANK YOU!

ΕΘΝΙΚΟ ΚΑΙ ΚΑΠΟΔΙΣΤΡΙΑΚΟ ΠΑΝΕΠΙΣΤΗΜΙΟ ΑΘΗΝΩΝ
ΤΜΗΜΑ ΦΑΡΜΑΚΕΥΤΙΚΗΣ