

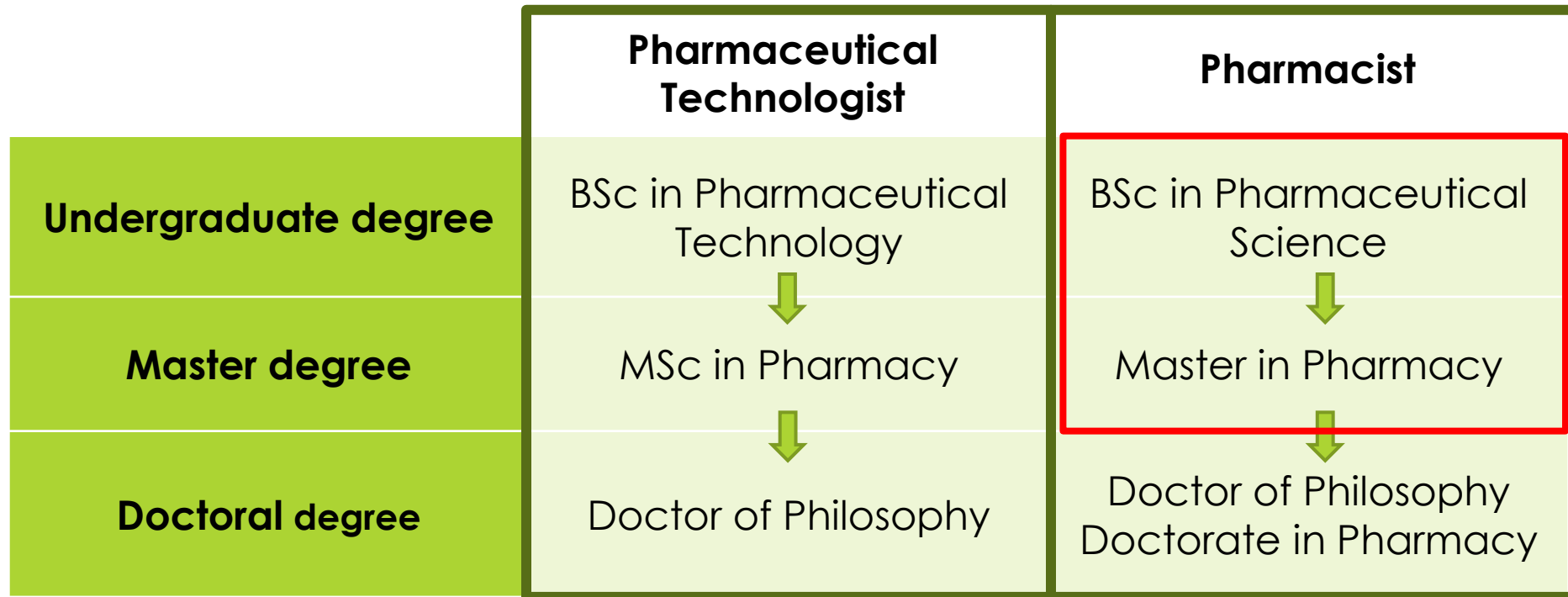
Industrial Pharmacy Education in Malta

NICOLETTE SAMMUT BARTOLO, JANIS VELLA

The Pharmaceutical Industry in Malta

- ▶ Active pharmaceutical ingredient manufacturing
- ▶ Generic manufacturing:
 - ▶ Solid dosage forms
 - ▶ Parenterals – oncology
- ▶ QC and batch release for Europe
- ▶ Partial manufacturing
- ▶ Distributors and wholesalers
- ▶ R&D

Courses Offered by the Department of Pharmacy



BSc in Pharmaceutical Technology (Hons)



BSc in Pharmaceutical Technology (Hons)

- ▶ Launched in 2011
- ▶ **Duration:** 3 years
- ▶ **Skills:**
 - ▶ Pharmaceutical Processes
 - ▶ Quality Assurance
 - ▶ Pharmaceutical Regulatory Sciences
 - ▶ Research

Course content

Theoretical Aspect

- ▶ Pharmaceutical Chemistry
- ▶ Drug Analysis
- ▶ Process Technology
- ▶ Regulatory Science
- ▶ Microbiology
- ▶ Pharmaceutical Quality Systems
- ▶ Pharmaceutical Laws and Ethics



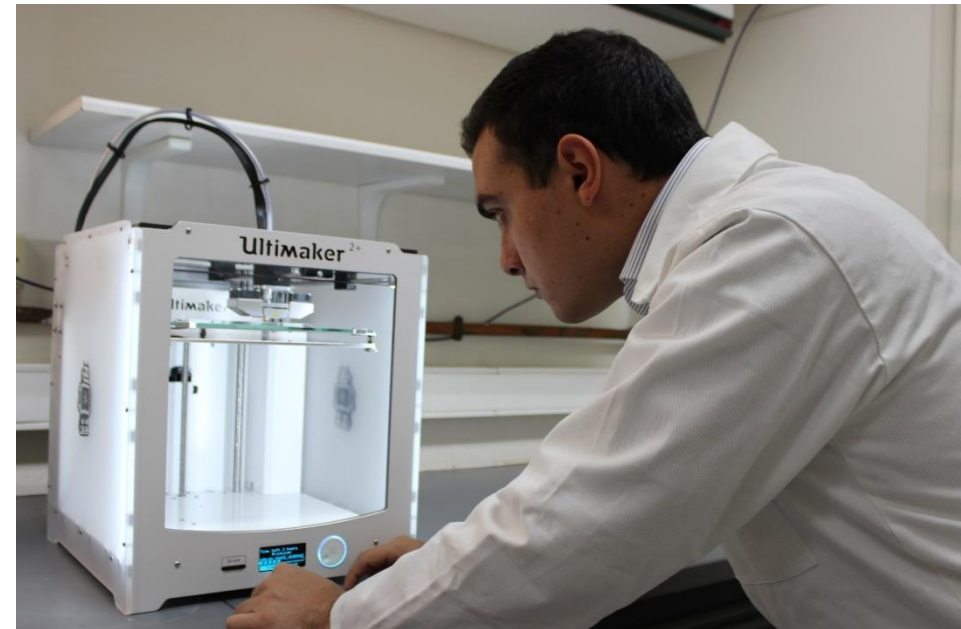
Course content

Practical Aspect

- Chemistry
- Microbiology
- Compounding

8-week Placement

- Regulatory affairs
- Quality control
- Quality assurance
- Medical representation



Erasmus Student Mobility



- ▶ At least 2 months experience in another university in an **EU country**
- ▶ Countries of choice:
 - ▶ Italy (Perugia, Rome, Catania, Bari, Padova)
 - ▶ Belgium (Brussels)
 - ▶ Germany (Bonn)
 - ▶ France (Paris, Lyon, Grenoble)
 - ▶ Spain (Madrid, Alcala, Salamanca)
 - ▶ United Kingdom (Cardiff, London)

Career Opportunities

- ▶ Quality assurance
- ▶ Analytical laboratories
- ▶ Pharmaceutical manufacture
- ▶ Regulatory affairs
- ▶ Medical representatives
- ▶ Governmental and Public entities
- ▶ Hospital services



Opportunities for further studies

Master of Science in Pharmacy

- **1.5 Year** programme with specialisation and research project

1st Year

- Pharmacy administration
- Pharmacoeconomics
- Industrial Pharmacy
- Ward Pharmacy
- Regulatory Science
- Pharmacovigilance
- Pharmacognosy
- Pharmaceutical Technology
- Pharmaceutical Chemistry
- Applied Physiology and Biochemistry

2nd Year

- Pharmacoeconomics
- Industrial Pharmacy
- Pharmaceutical Regulatory Science
- Pharmacy Administration, Management and Marketing
- Hospital Pharmacy

BSc in Pharmaceutical Science (Hons)

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Pharmacy Study Programme

- ▶ Bachelor of Science (Honours) in Pharmaceutical Science: **4 years**
- ▶ Master of Pharmacy: **1.5 years**

Course Content

- ▶ Pharmaceuticals
- ▶ Pharmaceutical Chemistry
- ▶ Pharmaceutical Analysis

- ▶ **20%** of course content- **Industry-related**

Pharmacy Practice Project

- ▶ Students start working on the project during the 2nd year of their studies
- ▶ **5 Industry-related pharmacy practice projects**

Placement

3rd year	4th year
2 nd semester	1 st semester
6 weeks	12 weeks
30 hours per week	

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Careers in Industry

- ▶ From a total of 31 pharmaceutical technologists, approximately **81% (n=25)** **work in industry**
- ▶ From a total of 932 pharmacists, **8% (n=71)** of Pharmacists **work in Industry**