Optics: engineering a vision of the future

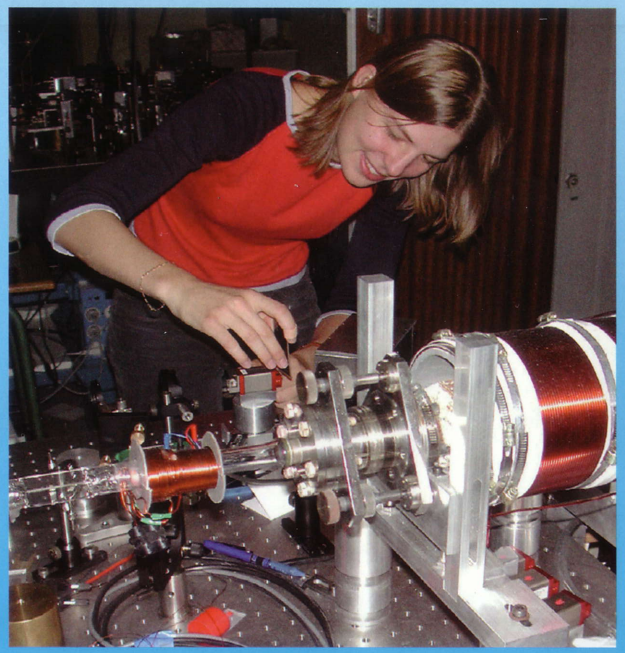
OpSciTech is a unique European Master Course providing a **comprehensive and multidisciplinary** coverage of the field of Optics, from upstream **scientific aspects to engineering and applications** in major sectors of the economy.

Offered by six top-level academic partners in five countries, it is supported by major companies such as Alcatel, Jenoptik, Thales, Zeiss or ASML.

The partners in *OpSciTech* are:

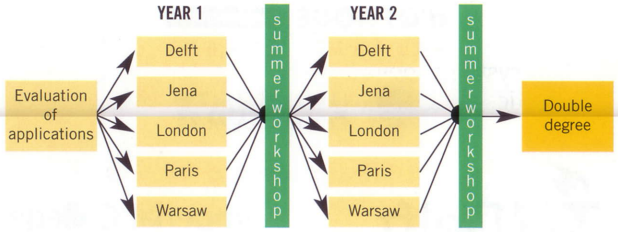
- **Delft University of Technology**, The Netherlands
- **Friedrich Schiller University Jena**, Germany
- **Imperial College London**, The United Kingdom
- **Université Paris-Sud 11 and Institut d'Optique* Graduate School**, **Paris**, France
- **Warsaw University of Technology**, Poland.

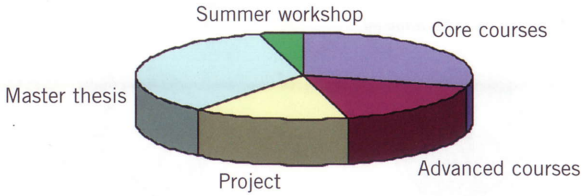
* coordinator



Programme

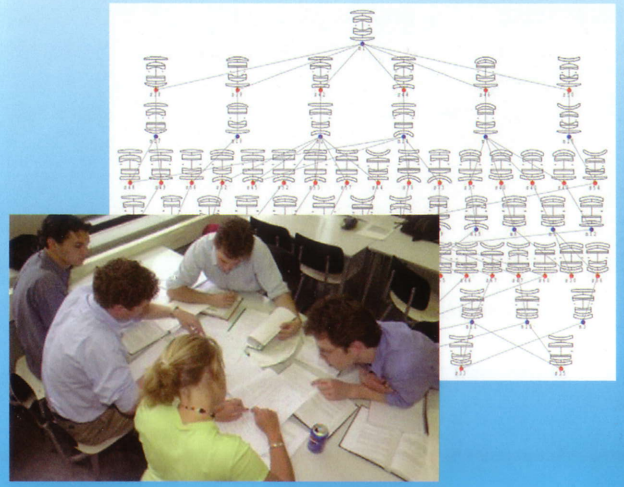
Students enrolled in the **two-year programme** will study in **two different countries** of their choice, spending one year in each. Students are trained for technical or scientific positions in academic or industrial environment specialised in optics or using optics. PhD studies are a natural extension of the Course.





The main language of instruction is English. Exams may be taken in English everywhere. Students are offered the possibility to learn the local language as a part of the program.

Courses are taught by research staff members. The student population is multinational with a professor/student ratio of about 2.



Course contents

The course consists of study-tracks jointly designed by the partner universities.

Core education in **fundamentals of optics provided by lectures, laboratories** and **projects, transferable skills** (management, entrepreneurship and languages) is provided at all sites.

Advanced courses are more specific to locations (**new frontiers in optics:** image science and analysis, lasers, optical systems, optomechatronics, optical metrology, nanooptics, quantum & atomic optics).

Projects and **Master thesis work** are performed in top academic or industrial **research environments** and may lead to publications in international journals.

Enrolled students participate in a **yearly summer workshop** organized in turn by each partner university. During the workshop, seminars are given by scholars, professors and professionals, **Master thesis dissertations** are defended by the graduating students and job opportunities at partner institutions are presented.

Degree awarded

Each graduate is awarded the **Master's degrees of the 2 institutions** involved in his/her individual study path.

Consult the *OpSciTech* website for details.

Deadlines

Scholarship applicants: January 31st

For EU applicants: Deadline extended until 21 February 2011 !!

INSTITUT d'OPTIQUE GRADUATE SCHOOL

UNIVERSITÉ PARIS-SUD 11

TU Delft
Delft University of Technology

Imperial College London

seit 1558
Friedrich Schiller University Jena

Warsaw University of Technology

Contact information
Erasmus Mundus Master programme
Optics in Science & Technology

Coordinator's Office
INSTITUT D'OPTIQUE *Graduate School*
Campus Polytechnique RD 128
91127 Palaiseau FRANCE

Email: through the website

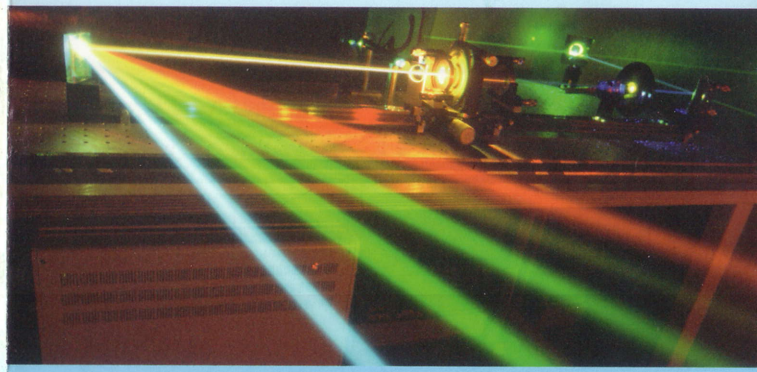
www.master-optics.eu

Education and Culture

Erasmus Mundus

Master of Science Course Optics in Science & Technology

OpSciTech



Optics: a vital branch of science and technology

Optics: the branch of physics and engineering which describes the behaviour of light and its interaction with matter and utilizes it.

Applications: biosciences to medical technology, quantum physics to telecommunications, optical systems to mechatronics and image analysis.
Optics has been around for many centuries and will remain at the heart of **science and technology** for centuries to come.

This is your opportunity to be part of the vibrant community of optics scientists and engineers.

www.master-optics.eu