Practical microscopy training has a long tradition at ZEISS. The first courses were held in Jena as early as 1907, initiated by two notable ZEISS scientists, Henry Siedentopf and August Koehler. The courses have since been continuously advanced and updated. Our own continuous education as well as cooperation projects with scientists in high-ranking laboratories ensure that we are always up to date.

Our courses impart the theoretical background as well as practical skills in many applications from biology, medicine and materials science. Lectures are immediately followed by practical hands-on trainings in small groups. And you will get comprehensive course material, which you can refer to when practicing your newly acquired skills and knowledge at your place.

Our trainers are graduated scientists and bring together knowledge in various scientific fields with several years of experience in microscopy and its practical application. This combination of technical and applications know-how is just the right mixture to get your theoretical and practical questions answered.

At our applications centers you have access to various combinations of microscopes of the latest generation of our systems – from the simple course microscope to digital imaging systems. Our courses offer maximum efficiency during theoretical and practical learning with the most modern systems. There is no better access to learn the diversity of microscopical applications.

We also offer customized courses at your facility to meet your special requirements. If you need professional support for your courses, we would like to help with our expertise.

ZEISS Microscopy Training Team

Please visit http://www.zeiss.com/courses for further information, our current schedule and the registration form.
Course Directory

Interactive content: Please click on the course you would like to go.

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Laser Scanning Microscopy Courses

A picture created from a confocal (LSM 710) image of developing eggs from the ovary of the parasitic wasp Microplitis demolitor.
Biomedical Microscopy Core, University of Georgia, Athens, GA
# Fluorescence Correlation Spectroscopy (FCS) in Biomedical Research

**Target Group**  
Advanced Users

**General**  
Fluorescence Correlation Spectroscopy (FCS) is a highly sensitive method that detects movement and binding of fluorescence-labelled particles on the single molecule level. Furthermore concentrations of movable fluorescent particles can be estimated. Thus biochemical reactions can be monitored in real time solutions as well as within living cells. This course will familiarize you with the theoretical background of FCS and train you how to perform and evaluate measurements in solutions and living cells.

**Topics**  
- Theory of FCS  
- Correlation function  
- Model functions for diffusion processes  
- Data acquisition for FCS  
- Data analysis for FCS  
- Objective lenses for FCS and FCCS

**Systems/Software**  
**Systems**  
- LSM 780 with ConfoCor 3  
- LSM with BiG detector

**Prerequisites**  
- Basic knowledge in light microscopy and fluorescence microscopy  
- Basic knowledge in laser scanning microscopy is recommended

**Location**  
Application Center Jena

**Duration**  
2 day(s)

**Participants**  
min. 3, max. 4

**SAP No.**  
000000-2102-930  
Please refer to our attached price list.

Please visit [http://www.zeiss.com/courses](http://www.zeiss.com/courses) for further information, current dates and registration. For courses on request please contact courses.microscopy.de@zeiss.com.
## Laser Scanning Microscopy - Advanced Biomedical Applications

### Target Group
- Advanced Users

### General
- Besides their classical function as superior 2D and 3D imaging systems, advanced laser scanning microscopes can be applied to study subcellular dynamics and to separate multiple fluorescent labels in a live cell environment. Confocal microscopy of living cells requires to optimize imaging for speed and minimal light induced lesions. If fluorescent labels with overlapping emission spectra are combined, simultaneous spectral acquisition followed by linear unmixing can be used to separate them from each other. Different photo manipulation techniques provide information about dynamic properties of the labelled components. Learn to master these innovative experimental approaches during this course to apply them successfully in your own research.

### Topics
- Strategies of multifluorescence imaging
- Lambda stack acquisition, linear unmixing and online fingerprinting
- Strategies for live cell imaging
- Photo manipulation: FRAP, photoconversion, photoactivation and FRET
- 3D VisArt
- Tiling and positioning
- HDR – high dynamic range imaging
- Physiology

### Systems/Software
- **Systems**
  - LSM 7 Generation (710, 780,700)

### Prerequisites
- Basic knowledge in laser scanning microscopy

### Location
- Application Center Jena

### Duration
- 3 day(s)

### Participants
- min. 4, max. 6

### SAP No.
- 000000-2102-950
  - Please refer to our attached price list.

Please visit [http://www.zeiss.com/courses](http://www.zeiss.com/courses) for further information, current dates and registration. For courses on request please contact courses.microscopy.de@zeiss.com.
Laser Scanning Microscopy - Introduction to Biomedical Applications

**Target Group**       Beginners

**General**

Laser Scanning Microscopy is a standard method in biomedical research. Excellent knowledge of its theory and application is a prerequisite for experimental success. In this course you will master the skills required for professional operation of our laser scanning microscopes including high-quality imaging of three dimensional samples, multi fluorescence labelling and basic quantitative image analysis.

**Topics**

- Principles and beam paths of point scanning LSM
- Image acquisition and optimization
- Multi fluorescent imaging and channel linear unmixing
- Colocalization
- 3D image acquisition and reconstruction
- Basic image analysis
- System maintenance and care (SMT, ConfigTool, MTB)
- Objective lenses selection for Laser Scanning Microscopy

**Systems/Software**

- LSM 7 Generation (710, 780,700)

**Prerequisites**

- Basic knowledge in light and fluorescence microscopy

**Location**

Application Center Jena

**Duration**

2 day(s)

**Participants**

min. 4, max. 6

**SAP No.**

000000-2102-952

Please refer to our attached price list.

Please visit [http://www.zeiss.com/courses](http://www.zeiss.com/courses) for further information, current dates and registration. For courses on request please contact courses.microscopy.de@zeiss.com.
# Lightsheet Z.1: Principle, Sample Preparation and Applications

**Target Group**  
Beginners and Advanced Users

**General**  
Light sheet microscopy by ZEISS is a completely novel technique in biomedical research, dedicated for live cell imaging. Excellent knowledge of its theory and application is a prerequisite for experimental success. This course provides detailed knowledge about light sheet microscopy in respect to its features, data handling sample preparation and application in biomedical sciences.

**Topics**
- Principles of light sheet microscopy
- Sample preparation & chamber building
- Single Side Illumination & Dual Side Illumination
- Pivot scan
- MultiView Quick Setup & Manual Setup
- Incubation
- Dual Side Fusion
- MultiView processing
- Deconvolution
- Online processing
- Customer interfaces

**Systems/Software**
- Systems
  - Lightsheet Z.1

**Prerequisites**
- Good knowledge in light microscopy

**Location**  
Application Center Jena

**Duration**  
5 day(s)

**Participants**  
min. 3, max. 4

**SAP No.**  
000000-2102-948

Please refer to our attached price list.

Please visit [http://www.zeiss.com/courses](http://www.zeiss.com/courses) for further information, current dates and registration. For courses on request please contact courses.microscopy.de@zeiss.com.
**LSM 700 - Biomedical Applications**

**Target Group**
Beginners

**General**
Laser Scanning Microscopy is a standard method in biomedical research. Excellent knowledge of its theory and application is a prerequisite for experimental success. This course provides detailed knowledge about point scanning confocal microscopes in respect to its assembly, features and application in biomedical sciences.

**Topics**
- Principles of point scanning LSM
- Beam paths and configurations of the LSM 700
- Variable Secondary Dichroic Beamsplitter (VSD)
- Emission filters and avoiding Crosstalk
- Image acquisition and optimization
- Multi fluorescent imaging and channel linear unmixing
- Acquisition of lambda stacks and linear unmixing
- Basic image analysis and colocalization
- 3D image acquisition and reconstruction

**Systems/Software**
- LSM 7 Generation

**Prerequisites**
- Basic knowledge in light microscopy

**Location**
Application Center Jena

**Duration**
2 day(s)

**Participants**
min.3, max. 4

**SAP No.**
000000-2102-954
Please refer to our attached price list.

Please visit [http://www.zeiss.com/courses](http://www.zeiss.com/courses) for further information, current dates and registration. For courses on request please contact courses.microscopy.de@zeiss.com.
Multiphoton Laser Scanning Microscopy

**Target Group**
Beginners and Advanced Users

**General**
Multiphoton microscopy enables due to the far red excitation deep tissue imaging and is thereby gentle to your sample. This course will provide you a profound introduction into Multiphoton microscopy including an introduction into different Multiphoton setups and suitable objective classes.

**Topics**
- Theoretical fundamentals of Multiphoton LSM
- Beam paths and configurations of the LSM NLO and MP
- Objective lenses for Multiphoton LSM
- Dodt contrast
- Non Descanned Detection and NDD filter cubes
- Excitation fingerprinting
- NLO manipulation
- Detection of second harmonic signals

**Systems/Software**
**Systems**
- LSM 7 Generation

**Prerequisites**
- „Laser Scanning Microscopy - Advanced Biomedical Applications“ or equivalent knowledge

**Location**
Application Center Jena

**Duration**
2 day(s)

**Participants**
min. 3, max. 4

**SAP No.**
000000-2102-956
Please refer to our attached price list.

Please visit [http://www.zeiss.com/courses](http://www.zeiss.com/courses) for further information, current dates and registration. For courses on request please contact courses.microscopy.de@zeiss.com.
# RICS: Raster Image Correlation Spectroscopy

**Target Group**  
Advanced Users

**General**  
We will provide the skills to acquire images from living cells for RICS and enable you to analyze RICS images based on simple fitting models.

**Topics**  
- Theory of RICS  
- The correlation image  
- Image acquisition for RICS  
- Fitting models for diffusion processes  
- Data analysis for RICS  
- Diffusion and correlation maps

**Systems/Software**  
- LSM 7 Generation

**Prerequisites**  
- „Laser Scanning Microscopy - Advanced Biomedical Applications“ or equivalent knowledge

**Location**  
Application Center Jena

**Duration**  
1 day(s)

**Participants**  
min. 3, max. 4

**SAP No.**  
000000-2102-958

Please refer to our attached price list.

Please visit [http://www.zeiss.com/courses](http://www.zeiss.com/courses) for further information, current dates and registration. For courses on request please contact courses.microscopy.de@zeiss.com.
# Specifically Arranged Trainings - Laser Scanning Microscopy

<table>
<thead>
<tr>
<th><strong>Target Group</strong></th>
<th>Beginners and Advanced Users</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General</strong></td>
<td>If you have a special training request of microscopy topics not covered in this catalogue, please feel free to contact us.</td>
</tr>
<tr>
<td><strong>Topics</strong></td>
<td>• Tailored according to request</td>
</tr>
<tr>
<td><strong>Systems/Software</strong></td>
<td><strong>Systems</strong></td>
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<tr>
<td></td>
<td>• Selection of current ZEISS systems</td>
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<tr>
<td></td>
<td><strong>Software</strong></td>
</tr>
<tr>
<td></td>
<td>• ZEISS Microscopy software</td>
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<tr>
<td><strong>Prerequisites</strong></td>
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<td><strong>Duration</strong></td>
<td>1-5 day(s)</td>
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<td><strong>Participants</strong></td>
<td>max. 8</td>
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</table>

Please refer to our attached price list.

Please visit [http://www.zeiss.com/courses](http://www.zeiss.com/courses) for further information, current dates and registration. For courses on request please contact courses.microscopy.de@zeiss.com.
**Superresolution Microscopy: PALM, dSTORM and Structured Illumination**

<table>
<thead>
<tr>
<th><strong>Target Group</strong></th>
<th>Advanced Users</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General</strong></td>
<td>Superresolution microscopy is a novel technique that enables insights into structures beyond the classical resolution limit. In essence there are two major superresolution techniques available. One is based on a structured illumination approach (SIM), the other depends on activable or photo-switchable fluorophores. This course will provide the skills to acquire SR-SIM, PALM and dStorm data from specimens and will enable you to perform the appropriate processing.</td>
</tr>
<tr>
<td><strong>Topics</strong></td>
<td>- Localization microscopy – basics and applications</td>
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<tr>
<td></td>
<td>- Comparison: PALM vs. dSTORM</td>
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<tr>
<td></td>
<td>- PALM: multichannel imaging</td>
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<td></td>
<td>- PALM: grouping and working with fiducials</td>
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<td></td>
<td>- PALM: activation strategies</td>
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<td>- SR-SIM: basics, acquisition and filtering</td>
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<td></td>
<td>- SR-SIM: channel alignment</td>
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<td></td>
<td>- SR-SIM: sample preparation</td>
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<td></td>
<td>- Data processing</td>
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</table>

| **Systems/Software**   | **Systems**                                           |
|                        | - Elyra system                                        |

| **Prerequisites**      | Good knowledge in widefield microscopy               |

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<th><strong>Location</strong></th>
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</table>

Please refer to our attached price list.

Please visit [http://www.zeiss.com/courses](http://www.zeiss.com/courses) for further information, current dates and registration. For courses on request please contact courses.microscopy.de@zeiss.com.
Liver Section (Human), 6 µm, Nuclear Fast Red Picric Acid-staining. Plan-APARCHROMAT 20/ 0.8. M. Zöllfel (TASC)
# Grains Analysis

**Target Group**  
Beginners and Advanced Users

**General**  
Deepen the knowledge about grains analysis using AxioVision Grains Software with your samples.

**Topics**
- Presentation of applications, hardware, accessories, resolution, segmentation, ISO and workflow
- AxioVision Grains Software demo
- Reporting and archives
- Real measurements on customer’s samples

**Systems/Software**

<table>
<thead>
<tr>
<th>Software</th>
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<tbody>
<tr>
<td></td>
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<tr>
<td>AxioVision</td>
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<td>Grains analysis</td>
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**Prerequisites**  
None

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<td><strong>Participants</strong></td>
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</table>

Please visit [http://www.zeiss.com/courses](http://www.zeiss.com/courses) for further information, current dates and registration. For courses on request please contact courses.microscopy.de@zeiss.com.
# Graphite Analysis

**Target Group**
Beginners and Advanced Users

**General**
Deepen the knowledge about graphite analysis using AxioVision Graphite Software with your samples.

**Topics**
- Presentation of applications, hardware, accessories, resolution, segmentation, ISO and workflow
- AxioVision Graphite Software demo
- Reporting and archives
- Real measurements on customer’s samples

**Systems/Software**

<table>
<thead>
<tr>
<th>Software</th>
</tr>
</thead>
<tbody>
<tr>
<td>AxioVision</td>
</tr>
<tr>
<td>Graphite analysis</td>
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</table>

**Prerequisites**
- None

<table>
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<tr>
<th>Location</th>
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</table>

Please refer to our attached price list.

Please visit [http://www.zeiss.com/courses](http://www.zeiss.com/courses) for further information, current dates and registration. For courses on request please contact courses.microscopy.de@zeiss.com.
# Image Analysis with AxioVision

**Target Group**
Beginners

**General**
Deepen the knowledge about image analysis using AxioVision.

**Topics**
- Presentation of applications, resolution, segmentation, workflow, software tools and scripts with Commander
- AxioVision Software demo

**Systems/Software**
- **Software**
  - AxioVision

**Prerequisites**
- None

<table>
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<th>Location</th>
<th>Application Center Göttingen</th>
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<tbody>
<tr>
<td><strong>Duration</strong></td>
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<td>000000-2102-929</td>
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</tbody>
</table>

Please refer to our attached price list.

Please visit [http://www.zeiss.com/courses](http://www.zeiss.com/courses) for further information, current dates and registration. For courses on request please contact courses.microscopy.de@zeiss.com.
Microinjection into Adherent Cells - Theory and Practical Exercises

**Target Group**
Beginners and Advanced Users

**General**
Theoretical introduction and practical exercises in microinjection techniques into adherent cells.

**Topics**
- Microinjection techniques into adherent cells: sample preparation, microinjection of marker dyes, microinjection of GFP-constructs
- Theoretical and practical microscopy training
- Analysis of the experiments with fluorescence microscopy techniques

**Systems/Software**

**Systems**
- Selection of current ZEISS systems

**Prerequisites**
- Basic experience with cell culture and microscopy are required

---

**Location**
EMBL ATC Heidelberg

**Duration**
2 day(s)

**Participants**
n/a

**SAP No.**
n/a
Please refer to our attached price list.

Please visit [http://www.zeiss.com/courses](http://www.zeiss.com/courses) for further information, current dates and registration. For courses on request please contact courses.microscopy.de@zeiss.com.
Non-Metallic-Inclusions (NMI)

**Target Group**  
Beginners and Advanced Users

**General**  
Deepen the knowledge about non-metallic-inclusions (NMI) using AxioVision NMI Software with your samples.

**Topics**
- Presentation of applications, hardware, accessories, resolution, segmentation, ISO and workflow
- AxioVision NMI Software demo
- Reporting and archives
- Real measurements on customer’s samples

**Systems/Software**
- AxioVision
- NMI

**Prerequisites**
- None

**Location**  
Application Center Göttingen

**Duration**  
6 hour(s)

**Participants**  
max. 8

**SAP No.**  
000000-2102-942

Please refer to our attached price list.

Please visit [http://www.zeiss.com/courses](http://www.zeiss.com/courses) for further information, current dates and registration. For courses on request please contact courses.microscopy.de@zeiss.com.
# Particle Analyzer

**Target Group**  
Beginners and Advanced Users

**General**  
Deepen the knowledge about Particle Analyzer using AxioVision Particle Analyzer Software with your samples.

**Topics**
- Presentation of applications, hardware, accessories, resolution, segmentation, ISO and workflow
- AxioVision Particle Analyzer Software demo
- Scripts with Commander
- Reporting and archives
- Real measurements on customer’s samples

**Systems/Software**
- AxioVision
- Particle Analyzer

**Prerequisites**
- None

**Location**  
Application Center Göttingen

**Duration**  
6 hour(s)

**Participants**  
max. 8

**SAP No.**  
000000-2102-945

Please refer to our attached price list.

Please visit [http://www.zeiss.com/courses](http://www.zeiss.com/courses) for further information, current dates and registration. For courses on request please contact courses.microscopy.de@zeiss.com.
RMS - Light Microscopy Summer School

**Target Group**  
Beginners and Advanced Users

**General**  
Theory and practice of all current light microscopical methods in transmitted and reflected light.

**Topics**  
- Principles of light microscopy

**Systems/Software**  
**Systems**
- Selection of current ZEISS systems

**Prerequisites**  
- None

---

**Location**  
University of York

**Duration**  
5 day(s)

**Participants**  
max. 8

**SAP No.**  
by arrangement  
Please refer to our attached price list.

Please visit [http://www.zeiss.com/courses](http://www.zeiss.com/courses) for further information, current dates and registration. For courses on request please contact courses.microscopy.de@zeiss.com.
Specifically Arranged Trainings - Light Microscopy

<table>
<thead>
<tr>
<th><strong>Target Group</strong></th>
<th>Beginners and Advanced Users</th>
</tr>
</thead>
</table>

**General**
If you have a special training request of microscopy topics not covered in this catalogue, please feel free to contact us.

**Topics**
- Tailored according to request

**Systems/ Software**
- **Systems**
  - Selection of current ZEISS systems
- **Software**
  - ZEISS Microscopy software

**Prerequisites**
- None

---

**Location**
Application Center Göttingen

**Duration**
1-5 day(s)

**Participants**
max. 8

**SAP No.**
000000-2102-936
Please refer to our attached price list.

Please visit [http://www.zeiss.com/courses](http://www.zeiss.com/courses) for further information, current dates and registration. For courses on request please contact courses.microscopy.de@zeiss.com.
# Price List

## Laser Scanning Microscopy Courses

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<thead>
<tr>
<th>Course</th>
<th>ZEISS Site</th>
<th>Customer Site</th>
</tr>
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<tbody>
<tr>
<td></td>
<td><strong>Course Fee</strong> per person</td>
<td><strong>SAP No.</strong></td>
</tr>
<tr>
<td>Fluorescence Correlation Spectroscopy (FCS) in Biomedical Research</td>
<td>2.100,00 €</td>
<td>000000-2102-930</td>
</tr>
<tr>
<td>Laser Scanning Microscopy - Advanced Biomedical Applications</td>
<td>2.625,00 €</td>
<td>000000-2102-950</td>
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<tr>
<td>Laser Scanning Microscopy - Introduction to Biomedical Applications</td>
<td>1.400,00 €</td>
<td>000000-2102-952</td>
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<tr>
<td>Lightsheet Z.1: Principle, Sample Preparation and Applications</td>
<td>4.375,00 €</td>
<td>000000-2102-948</td>
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<tr>
<td>LSM 700 - Biomedical Applications</td>
<td>1.400,00 €</td>
<td>000000-2102-954</td>
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<tr>
<td>Multiphoton Laser Scanning Microscopy</td>
<td>1.750,00 €</td>
<td>000000-2102-956</td>
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<tr>
<td>RICS: Raster Image Correlation Spectroscopy</td>
<td>1.050,00 €</td>
<td>000000-2102-958</td>
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<tr>
<td>Specifically Arranged Trainings - Laser Scanning Microscopy</td>
<td>1.050,00 € (costs per day)</td>
<td>000000-2102-946</td>
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<tr>
<td>Superresolution Microscopy: PALM, dSTORM and Structured Illumination</td>
<td>3.500,00 €</td>
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## Light Microscopy Courses

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<tr>
<td>Grains Analysis</td>
<td>400,00 €</td>
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<td>Graphite Analysis</td>
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<td>Image Analysis with AxioVision</td>
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<td>Microinjection into Adherent Cells - Theory and Practical Exercises</td>
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<tr>
<td>Non-Metallic-Inclusions (NMI)</td>
<td>600,00 €</td>
<td>000000-2102-942</td>
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<td>Particle Analyzer</td>
<td>600,00 €</td>
<td>000000-2102-945</td>
</tr>
<tr>
<td>RMS - Light Microscopy Summer School</td>
<td>by arrangement</td>
<td>n/a</td>
</tr>
<tr>
<td>Specifically Arranged Trainings - Light Microscopy</td>
<td>1.050,00 € (costs per day)</td>
<td>000000-2102-936</td>
</tr>
</tbody>
</table>

All prices are net prices and subject to VAT statutory rate.

Please visit [http://www.zeiss.com/courses](http://www.zeiss.com/courses) for further information, current dates and registration.

For courses on request please contact courses.microscopy.de@zeiss.com.

Valid from April 1st, 2014. All information are subject to change.