



**ANNOUNCEMENT WS 2015/2016**

**ELEMENTS OF MICROSTRUCTURE**

**Location and Time:  
ICAMS CIP-Pool, Wednesday 13:30-15:30\***

**Juniorprof. Dr. Victoria Yardley (VY),  
Prof. Dr. Gunther Eggeler (GE)  
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Ruhr-Universität Bochum**

This course is an introduction to the microstructures of engineering materials. It is targeted towards students of the Master's Course "Materials Science and Simulation" but is also open to all other students, postdocs and guests who are interested in the basic principles underlying materials microstructures and methods for their analysis. All lectures and course materials will be in English. Please register for the course in Blackboard (course no. 440402) to receive the latest information or contact the course assistant, Jenni Zglinski (jenni.zglinski@rub.de).

**Schedule**

(1)	21 Oct	Introduction: from atoms to aircraft (VY)
(2)	28 Oct	Atomic structure of materials 1 (VY)
(3)	04 Nov	Atomic structure of materials 2 (VY)
(4)	<b>*12 Nov, 8:00-10:00*</b>	Atomic structure of materials 3 (VY)
(5)	18 Nov	Phases and phase diagrams 1 (VY)
(6)	25 Nov	Phases and phase diagrams 2 (VY)
(7)	02 Dec	Point defects and diffusion 1 (VY)
(8)	09 Dec	Point defects and diffusion 2 (VY)
(9)	16 Dec	Phase transformations 1 (VY)
	23, Dec, 30, Dec, 6 Jan	No lecture (Christmas & New Year holidays)
(10)	13 Jan	Phase transformations 2 (GE)
(11)	20 Jan	Phase transformations 3 (GE)
(12)	27 Jan	Dislocations and deformation 1 (GE)
(13)	03 Feb	Dislocations and deformation 2 (GE)
(14)	10 Feb	Surfaces and interfaces (GE)