



General Information

Module Title	<i>Material sciences and mechanics</i>
Tutor Name(s)	<i>J. Dunlop</i>
Location where module takes place	<i>Max Planck Institute for Colloids and Interfaces Wissenschaftspark Golm, Am Mühlenberg 1, 14476 Potsdam-Golm Dept. of Biomaterials, please go to reception of the institute 31 August to 4 September, 09:30 to 12:30</i>

Suitable for the tracks	<input checked="" type="checkbox"/> <i>Biology/Biochemistry Track</i>		
	<input checked="" type="checkbox"/> <i>Chemistry/Physics/Engineering Track</i>		
	<input checked="" type="checkbox"/> <i>Clinical Scientist</i>		
Type	<i>Lecture;</i>	Level	<i>beginner</i>
Days	<i>5</i>	Max. Participants	<i>no limit</i>

Objectives this module

1) to teach the important concepts of materials science/mechanics that would be useful for someone working in biology/medicine; 2) to outline important basic concepts that are used throughout materials science; 3) to give suitable references for further study which would help people to access the more technical literature and 4) examples would be made of how these theories are applied to biological systems and in regenerative medicine, including practical training in the laboratory.

The module will be held from the 31/8/2009 till 4/9/2009 from 9:30am to 12:30pm. Students may also participate in the laboratory course held in the afternoon by Manjubala Inderchand and Peter Fratzl also in the Max Planck Institute for Colloids and Interfaces.

Which course materials, software, or instruments do students use in this module?

What are the prerequisites for taking this subject?

Students of the Biology or Clinical Scientist Track should ideally participate in the lecture Biological Materials Science (for Beginners) of Prof Fratzl