

Academic Offer description template for EMP-AIM Project:

Institution:	Johannes Kepler University Linz
EU subject code:	13.2 - Physics
Type of Mobility:	Master for Degree
Title of the programme:	Nanoscience and Technology
Language:	English
Website with List of Courses relevant to the programme:	www.nanoscience.at http://www.jku.at/content/e262/e242/e2380/e1832/ http://www.jku.at/STA/content/e4426/e3098/e2380/e1832/e1825/e1823/4_MS_TechPhysNanoBiophys_Curric_MTB26_220611_ger.pdf
Duration (months):	22
Earliest start date:	September 2012
Latest end date:	August 2014
Academic requirements:	Appropriate Bachelor degree
Language Requirements: [e.g.:Have a good command of English, certified by a TOEFL score of minimum 550 (electronic 213) or a IELTS of 7.5. Candidates who can prove that their entire university education was taken in English (for example in a Commonwealth country) can be exempted	fluent English, if possible demonstrated by TOEFL or IELTS exam.

from this requirement]	
Academic calendar:	Winter semester: 1.10.2012 – 31.1.2013 (arrival mid-February) Summer semester: 1.3.2013 – 30.6.2013 (arrival mid-September)
Contact name:	Univ. Prof. Dr. Kurt Hingerl
Contact e-mail:	kurt.hingerl@jku.atu
Additional information: [e.g. specific remarks could be provided for applicant to know in advance – f.e. „Courses are opened only if minimum number of exchange students register for the course“]	<p>The Master's degree program in “Nanoscience and Technology” focuses on fundamental, physical and chemical properties of low-dimensional systems, applied experimental and engineering methods geared towards the production and analysis of nanomaterials and nano construction elements, as well as the development of suitable applications. Students are educated as interdisciplinary specialists possessing solid education in selected areas of natural and artificially produced nanostructures. Program graduates will have the necessary skills to implement new applications in engineering and research.</p> <p>The selected student shall attend during his MSc. education the courses in Linz and also perform - at least part of his diploma thesis here in Linz. A good knowledge of optical properties of materials is an advantage. Knowledge on linear and nonlinear optical properties is helpful, especially experience with polarization optical measurements / ellipsometry of surfaces and thin films.</p>
Explanatory text (short description of the programme): [What are the learning outcomes of the programme? Compulsory courses, is thesis required, placement possibilities, etc.]	<p>The Master's degree program in “Nanoscience and Technology” focuses on fundamental, physical and chemical properties of low-dimensional systems, applied experimental and engineering methods geared towards the production and analysis of nanomaterials and nano construction elements, as well as the development of suitable applications. Students are educated as interdisciplinary specialists possessing solid education in selected areas of natural and artificially produced nanostructures. Program graduates will have the necessary skills to implement new applications in engineering and research.</p>
Mechanism of recognition and transfer used by the University:	According to ECTS standards