



Universidad de Jaén

Escuela de Doctorado. Vicerrectorado de
Enseñanzas de Grado, Postgrado y
Formación Permanente

Doctoral studies in Materials Engineering and Sustainable Energy

Basic competencies

CB11 - Systematic understanding of a field of study and command of research skills and methods related to this field.

CB12 - Ability to conceive, design, or create, put into practice, and adopt a substantial research or creative process.

CB13 - Ability to contribute to broadening the frontiers of knowledge through original research.

CB14 - Ability to make a critical and evaluative analysis and synthesis of new and complex ideas.

CB15 - Ability to communicate with the academic and scientific community and with society in general about their corresponding areas of knowledge through the usual means and languages used in the international scientific community.

CB16 - Ability to promote scientific, technological, social, artistic, or cultural advances in academic and professional contexts within a knowledge-based society.

Personal abilities and skills

CA01 - Operate effectively within contexts where there is little specific information.

CA02 - Find the key questions that need to be answered in order to solve a complex problem.

CA03 - Design, create, develop, and undertake novel and innovating projects in the field of knowledge.

CA04 - Work in an international and multi-disciplinary context on a team as well as independently.

CA05 - Integrate different areas of knowledge, cope with complexity, and formulate opinions with limited information.

CA06 - Intellectual criticism and defense of solutions.

Other competencies

CE01 - Capacity to acquire skills for transfer of technology to the production sector based on the results obtained in research projects and research, innovation and development departments.