

PhD PROGRAM IN ENGINEERING FOR ENERGY AND ENVIRONMENT	
<b>Coordinator</b>	Prof. Andrea Luigi Facci
<b>Department</b>	Department of Economics, Engineering, Society and Business Organization in collaboration with the Department of Agriculture and Forest Sciences
<b>Program duration</b>	3 years: 1 <sup>st</sup> July 2024 – 30 June 2027 Dissertation by December 2027
<b>Program objectives</b>	The PhD program in “Engineering for Energy and Environment” aims to provide a high level of training to a select number of young graduates to make them competitive on a national and international level in private companies with high technological contents, research centers and universities. The main objective of the program (which is structured in two curricula, “Energy and engineering systems” and “Biosystems and environment”) is to provide an interdisciplinary view of engineering problems in the energy and environment scientific areas, characterized by a high technological development. The research activities will be devoted to the study of new engineering solutions, novel processing techniques and innovative research methodologies, with a focus on their technology transfer. Students will be engaged in training activities and scientific research in the program subjects, with particular reference to technologies for thermonuclear fusion, energy conversion processes, energy storage, environmental issues, innovations in the fields of mechanical engineering, also in agriculture, and of sensors, biosystems and agricultural issues, with regard to primary production and environmental aspects. The work of the PhD students will be coordinated by the members of the board already active in national and international industrial collaborations and research projects, in innovative and relevant topics, such as hydrogen technologies, renewable energy, biomass, biosystems and thermonuclear fusion.
<b>Scholarship funded by the Department of Economics, Engineering, Society and Business Organization</b>	<b>Curriculum “Engineering and Energy Systems”</b>  Research topic: “Development of an AI-based model for the monitoring and energy efficiency improvement of energy using products and assets”
<b>Admission requirements</b>	Admission is open to candidates of any nationality and age who have one of the following requirements by the deadline of the call for application: - Italian degree “Laurea Vecchio Ordinamento”; - Italian degree “Laurea Specialistica” or “Magistrale”; - International academic qualification (degree) awarded in a foreign University or in the context of inter-university cooperation and mobility agreements. Admission is also open to students will obtain their degree within 28 June 2024. In such cases admission will be “conditional”. Failure to obtain the degree by that date will result in forfeiture of admission to the doctoral course.
<b>Evaluation of candidates (Maximum score: 80 out of 80)</b>	<b>Evaluation of academic qualification and oral examination</b> <b>Assessment of the English Language Knowledge.</b>  Language for the examination: Italian or English The evaluation of qualifications is preliminary to the oral exam. The score obtained by candidates after the evaluation of their qualifications will be added to the score of the oral examination. The results will be published on the <a href="#">PhD web page</a> . Together with the application form, candidates should submit a research project, within the above-mentioned research topic, up to a maximum of 5 pages, which must be written in Italian or English. The research project will be discussed during the oral exam.
<b>Evaluation of academic</b>	Master’s thesis: max <span style="float: right;">5 points</span>



<b>qualification (Maximum score: 20 out of 80)</b>	<p>University career (exams taken with the relative grades and final grade): max 4 points</p> <p>Research and/or study activities in foreign institutions: max 2 points</p> <p>Professional experiences and other qualifications that each candidate considers useful: max 4 points</p> <p>Research project submitted by the candidate: max 5 points</p> <p>Before of the oral exam, the evaluation of academic qualification results will be published on the Tuscia web site <a href="http://www.unitus.it">www.unitus.it</a> (section "Didattica" &gt; "Dottorati di Ricerca").</p> <p>For graduating applicants, the score reserved for the graduation evaluation will be replaced by the evaluation of the average of the exams.</p>
<b>Evaluation of the oral exam (Maximum score: 60 out of 80)</b>	<p>Oral exam: maximum score 60 out of 80 points</p> <p>The minimum score for a positive oral exam will be at least 40 out of 80 points.</p>
<b>Topics of the oral examination</b>	<p>The oral exam will be focused on the discussion of the research project and of the related topics.</p> <p>The interview includes the assessment of knowledge of the English language by reading and translating some paragraphs of a scientific text.</p>
<b>Timetable and interview location</b>	<p>The oral exams will be held on 26 June 2024.</p> <p>The schedule of the oral exam will be published on the <a href="#">PhD web page</a> by the deadline of the application call.</p>
<b>Contact to information</b>	<p>Contacts of the course:</p> <p>Prof. Andrea Luigi Facci: <a href="mailto:andrea.facci@unitus.it">andrea.facci@unitus.it</a></p> <p>Prof. Marco Marconi, e-mail <a href="mailto:marco.marconi@unitus.it">marco.marconi@unitus.it</a></p>