

The dept. of Excellence DII organizes a short course for both PhD in Industrial Engineering and in Technology, Innovation and Management (TIM) at Federico II on

Renewable energy: a challenging route from research to market

Prof. Dr.-Ing. **Jochen Großmann**, Federico II's Visiting Professor
GICON®-Großmann Ingenieur Consult GmbH

Naples, November, 24th - 27th, 2025
Scuola Politecnica e delle Scienze di Base



Course Contents

This course introduces PhD students to **innovation management of renewables** from research to market launch. The growth of the **TRL** from the concept generation phase to industrial demonstrator is discussed considering **risk and success factors**. In this light, students will be aware about the evolution of an excellent **German company**, on the base of the experience of his founder **prof. Grossman**.

The **R&D model** of Gicon to create value through innovation is introduced. This course could inspire brilliant researchers to start the route from patents to the field.

A **research result** turns into an **innovation** when it enters a **market** – and should ideally tackle social or economic challenges. Which impact do certain **renewable innovations** have for an accelerated **energy transition** and what is the **role of universities, start-ups** and research-based companies in the innovation ecosystem are main questions that will be discussed during the lectures.

Invited lecturer



Prof. Dr.-Ing.
Jochen Großmann

Career

- 1982 Master Degree at Technical University of Dresden
- 1985 Doctorate from the TU Dresden in the field of nuclear power plant automation
- 1987 - 1988 Research visit at the Moscow Power Engineering Institute
- 1989 Habilitation at the TU Dresden in the field of complex energetic and ecological evaluation of process engineering
- 1989 - 1990 Head of the Environmental Protection Department at the ORGREB Institute for Power Plants, Dresden
- 1990 - 1994 Managing partner of GroBmann & Partner GmbH, Dresden Since
- 1995 Managing partner of the company GICON®-GroBmann Ingenieur Consult GmbH, Dresden
- 2006 - 2014 Honorary professor for "Management of environmental and remediation projects" at the BTU Cottbus
- Since 2016 Visiting Professor IMP PAN Gdansk 1985 PhD TU Dresden in the field of nuclear power plant automation

Patents

He holds over 50 patents worldwide



Detailed Course Programme

Renewable Energy: a challenging route from research to market

<p>Monday November 24th, 2025 Room BOBBIO, I Floor, Piazzale Tecchio, 80</p>	<p>9:00-9:30: Introduction to the Course with greetings from: prof. Andrea Prota, President of Scuola Politecnica e delle Scienze di Base, prof. Nicola Bianco, DII Director and prof. Michele Grassi, PhD in Industrial Engineering coordinator</p> <p>9:30-10:45: <i>Keynote lesson</i> Reaching TRL 9 – From research to market launch «How ideas become marketable innovations»</p> <p>11:00-12:30: <i>Panel - Synergia</i>: Sustainable design and development of green energy systems: fostering collaboration between research centers and innovative companies</p> <p>13:45-15:15: Keynote (discussion), Workgroup + Discussion</p>
<p>Tuesday November 25th, 2025 Aula MUNDUS, II Floor, Building X, Via Claudio 21</p>	<p>9:00-10:30: Lesson 2: Challenges in Wind energy</p> <p>10:45-12:15: Lesson 3: Sustainable hybrid power plant</p> <p>13:45-15:15: Workgroup + Final Discussion</p>
<p>Wednesday November 26th, 2025 Aula MUNDUS, II Floor, Building X, Via Claudio 21</p>	<p>9:00-10:30: Welcome: prof. Antonio Marzocchella, President Italian Microalgae Society prof. Fabio Bozza, Master Mech. Eng. For Energy and Environment</p> <p>Lesson 4: Microalgae: from theoretical basis to technology challenges</p> <p>10:45-12:15: Lesson 5: Bioenergy technologies: from biogas to biomethane</p> <p>13:45-15:15: Workgroup + Final Discussion</p>
<p>Thursday November 27th, 2025 Aula del Consiglio, P.Le Tecchio 80</p>	<p>9:30: Final Assessment - Evaluation test</p> <p>10:30: Certification ceremony - PhD students</p> <p>11:30: Concluding remarks</p>

Contact Professor@Department of Excellence:

prof. **Nicola Bianco** – nicola.bianco@unina.it; prof. **Antonio Lanzotti**- e-mail: antonio.lanzotti@unina.it

Additional Info

The official languages will be English.

The participation to the Course and successful completion of the final test will give to:

- **PhD students** the right to **4 CFU**.
- **Master's degree students** the right to **2 CFU** for other knowledge.
- **Bachelor's degree students** the right to **2 CFU** for other knowledge.

⚠ To attend the Course a registration via email to **Luigi Calvanese** - e-mail: luigi.calvanese@unina.it is required.

Acknowledgements

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