

Other upcoming courses from DTU Wind and Energy Systems this year

Explore more short courses from the DigiWind programme:

- > Wind Turbine Blade Testing
- > Version Control with Git
- > Prognostics and Health Management (PHM) for Wind Energy Systems
- > Introduction to Using Optimization for Engineering Design
- > Model-based Estimation of Remaining Useful Life
- > Operating Data Analytics and Prognostics
- > Uncertainty Quantification for Industrial Wind Assessment



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DIGIWIND
Digital Masters of Wind and Energy Systems



DigiWind & DTU courses



PARTNERS



Co-funded by
the European Union

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The Technical University of Denmark (DTU) is at the academic and multidisciplinary forefront of the technical and the natural sciences with new initiatives in several demanding engineering disciplines. DTU leads the DigiWind coordination and is responsible for the overall management of the project. DTU also leads the activities that set the framework for all DigiWind developments, and contributes to the development and execution of SEP at M.Sc. and Master level, as well as LLL modules.

Wind Resource Assessment for Programmers (PyWASP)

4–22 May 2026 · part-time
5,000 DKK (limited discount)
Hybrid (online or DTU Risø Campus)

Unlock the power of scientific programming to advance wind resource assessment. This course equips participants with practical skills in Python and its scientific ecosystem—including NumPy, pandas, xarray, and geopandas—as well as QGIS for geospatial data handling. You'll learn to perform robust numerical wind resource assessments using specialised tools like Windkit and PyWASP, gaining hands-on experience in processing, analysing, and visualising wind data.

Teachers from DTU Wind and Energy Systems:

Bjarke Tobias Eisensøe Olsen, Researcher
Rogier Ralph Floors, Senior Researcher

After this course, you can:

- Build Python workflows for wind resource assessment.
- Apply PyWASP and Windkit to real world wind datasets.
- Automate key steps from raw data to site specific wind and energy estimates.



Scan to read more
and sign up

Data Science Essentials for Wind Energy Systems

15 June - 03 July 2026 (part-time)
3 weeks · Online
10,000 DKK

Upskill in Python based data science for wind energy: research data management, visualisation, statistics, machine learning and AI, all applied to real wind datasets and industry cases. The course blends focused lectures, hands on exercises and a capstone project, with the option to bring your own data or project. Key topics span digital best practices, including data visualisation, metadata management (FAIR principles, ontologies and labelling), exploratory data analysis, data processing, feature engineering, machine learning and AI methods, versioning with Git (supported by pre course video material), and licensing and regulation for data use in the wind sector.

Teachers from DTU Wind and Energy Systems:

Tuhfe Göçmen, Senior Researcher
Ju Feng, Senior Researcher
Matti Koivisto, Senior Researcher
Nikolay Dimitrov, Senior Researcher
Neil Davis, Senior Researcher

After this course, you can:

- Handle and structure wind energy data for analysis.
- Apply key Python libraries for data exploration and modelling.
- Use machine learning and AI to support wind energy decisions.



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and pre-register

End-of-Life Management for Wind

Dates to be announced
5 weeks, part-time · Online
5,000 DKK (limited discount)

Shape the sustainable future of wind energy by mastering end-of-life strategies for turbines and wind farms. Over five weeks, you explore how to decide between lifetime extension, repowering and decommissioning, balancing technical, economic, regulatory and environmental considerations. Case-based teaching, tools and frameworks help you work systematically with risk, costs, circularity and stakeholder impact across the full asset lifecycle.

Teachers from DTU Wind and Energy Systems:

Athanasios Kolios, Professor
Justine Beauson, Development Engineer
Asger Bech Abrahamsen, Senior Researcher
Nikolay Dimitrov, Senior Scientist
Matthias Stammeler, Associate Professor
Moritz Johann Gräfe, Postdoctoral Researcher

After this course, you can:

- Analyse end-of-life options for wind farms and key components.
- Integrate circular economy and sustainability criteria into decisions.
- Communicate evidence-based recommendations to asset owners and regulators.



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