



METOCEAN MODELLING FOR MARINE RENEWABLES

New trends in offshore metocean modelling and analysis

This two-day, thematic hands-on course introduces modelling and analyses of relevance for marine renewable energy projects. It enables the practitioner to understand the benefits and limitations of metocean design data and provides guidelines on how to develop these. The course is focused on our 'Best Practices' for coastal and offshore projects for wind turbines wave and tidal power and marine infrastructure projects.

Project managers and others working with coastal or offshore projects are facing the forces of nature and must develop reliable designs, able to withstand the waves and currents in harsh environments and at the same time harness the energy of the oceans to the benefit of society

Part of the planning or design process of marine projects is to find valid data sources either from observations or via modelling and to carry out relevant analyses which can pertinently quantify the environmental conditions.

COURSE TOPICS

- Metocean data sources and quality assessment
- Recognised standards and guidelines
- Introduction to wave modelling using MIKE 21 models
- Introduction to flow modelling using MIKE 21 models
- Metocean modelling
- Model calibration and skill assessment
- Hindcast and forecast simulations
- Analysis and presentation of metocean data
- Yield estimation for wave and tidal power plants
- Hands-on exercises

TARGET GROUP AND PREREQUISITES

This two-day thematic course is directed towards project engineers, who need an introduction to off-shore metocean modelling and analysis, or project managers with a need to understand the advantages and limitations of best practice methods in the establishment of normal and extreme environmental parameters.

THE ACADEMY BY DHI

THE ACADEMY offers a palette of courses and capacity building packages designed to fit your needs and challenges. We offer standard and/or tailored training - face-2-face as well as online.

MIKE Powered by DHI courses focus on practical skills, hands-on exercises and teaching you how to get the most out of your software. These courses also enable you to understand the power of the MIKE tools for building decision support systems.

Thematic courses allow you to apply concepts, applications and decision support principles to the entire business process within current areas: aquaculture and agriculture, energy, climate change, flooding, coast and marine, surface and groundwater, urban water, industry, environment and ecosystems, product safety and environmental risk, etc.

Our trainers are experienced professionals, many of whom are recognised international experts in their fields. The use of highly skilled trainers guarantees the quality of THE ACADEMY courses.

LEARN MORE AND CONTACT US



courses@dhigroup.com
www.theacademybydhi.com