2019 年日本財団 海洋開発サマースクール クラススケジュール オランダ

※このスケジュールは2019年3月15日時点の予定であり、現地での状況を踏まえて、予告なく変更する可能性があります。

日	曜日	時間	内容	場所
8/11	日	AM		
		PM	宿泊先にチェックイン Delft Family Apartment XXL DOB-Academy・デルフト工科大 関係者との夕食会	
8/12	月	AM	Opening, Orientation PowerPoint を使っての自己紹介	DOB-Academy
		PM	**Introduction to Offshore Wind** ● Comprehending what wind is and how it can be used to generate electricity ● Understanding the effect of policy and societal needs in the development of offshore wind energy ● Calculating the energy yield of a wind turbine at an arbitrary location ● Understanding the principles and parameters in the design of an offshore wind turbine support structure ● Gaining insight into the life cycle of a typical wind farm including design, construction, installation, operation and maintenance	
8/13	火	AM		
		PM		
8/14	水	AM	Company Visit （Shell,Heerema, Sif, Torcardo, Redstackz, Amplemann 等）	調整中
		PM	Westermeer Wind Farm 見学、 プレゼンテーションスキル	船上
8/15	木	AM	**Ocean Energy** ● Asses the resource potential for wave and tidal energy ● Get insights in the physical principles for ocean energy conversion ● Understand the design considerations and technical challenges for current ocean energy technologies ● Evaluate the environmental and economic aspects of ocean energy	TU-Delft
		PM		
8/16	金	AM		
		PM		
8/17	土	AM	フリー	
		PM		
8/18	日	AM	フリー	
		PM		
8/19	月	AM	**Wind Farm Design**	DOB-Academy
		PM		
8/20	火	AM		

		PM	● Understanding all the different aspects encountered when designing a typical wind farmGaining insight into working or leading a team in the development of an offshore wind farm	
8/21	水	AM PM	Company Visit （Shell,Heerema, Sif, Torcardo, Redstackz, Amplemann 等）	調整中
8/22	木	AM PM	**Bottom Founded Offshore Structure (BFOS)** ● The overall aim for this course is for participants to learn how to design a bottom founded offshore structure (BFOS). This includes the structural analysis of existing structures and the ability to improve the design of these structures based on the structural analysis. ● Perform a design-cycle as a part of the BFOS design process ● Assemble the structural configuration of an offshore platform substructure ● Assess the permanent, variable and environmental loads on BFOS ● Analyze and evaluate the structural configuration of BFOS ● Evaluate the influence of life-cycle aspects on the design of BFOS, including fabrication, transport, installation, operations management & decommissioning ● Design the (pile) foundation for BFOS ● Analyze the structural dynamics of, and assess fatigue in, BFOS 参考：8/22 夕方にデルフトジャズフェスティバルが開催されます。	TU-Delft
8/23	金	AM PM		
8/24	土	AM PM	【調整中】シーサバイバルトレーニング体験	
8/25	日	AM PM	フリー	
8/26	月	AM PM	**Wind Farm Design** ● Understanding all the different aspects encountered when designing a typical wind farm ● Gaining insight into working or leading a team in the development of an offshore wind farm	DOB-Academy
8/27	火	AM PM		
8/28	水	AM PM	Company Visit （Shell,Heerema, Sif, Torcardo, Redstackz, Amplemann 等）	調整中 調整中
8/29	木	AM PM	**Numerical Analysis of Offshore Structure**	TU-Delft
8/30	金	AM		

		PM	● Students will be able to create, program and validate a numerical model to simulate the dynamic behavior of an offshore energy system in a simplified manner. ● Students will be able to implement numerically the environmental loads from the action of waves, wind and current. ● Python, Matlab を使用（初心者には事前にレッスンあり）	
8/31	土	AM	フリー	
		PM		
9/1	日	AM	フリー	
		PM		
9/2	月	AM	**Wind Farm Design** ● Understanding all the different aspects encountered when designing a typical wind farm ● Gaining insight into working or leading a team in the development of an offshore wind farm	DOB-Academy
		PM		
9/3	火	AM		
		PM		
9/4	水	AM	Company Visit （Shell,Heerema, Sif, Torcardo, Redstackz, Amplemann 等）	調整中
		PM	**Beach Game** The outdoor installation game is an inspiring team activity that combines science and technology for a sustainable energy project. The case empowers the participants to build a wind turbine from different perspectives and roles from the supply chain. This applies the gained understanding of the installation concepts into practice. The teams are required to invest in the essential materials and services to build the turbine. The activity is time and resource constrained, to simulate the real-world environment.	ビーチ
9/5	木	AM	発表会準備・撮影	DOB-Academy
		PM		
9/6	金	AM	発表会・修了式	
		PM		
9/7	土	AM	**World Port Days(Rotterdam)** ロッテルダムで毎年開催される壮麗な海のイベント。 港や周辺の施設などを紹介しながら、港湾都市への理解を深めることができます。 港湾エリア、工業エリアのバックシーンを垣間見たり、ボートツアー、航海関連のアクティビティ、デモンストレーション、セミナー、エクスカーション、 展示会、音楽会など盛り沢山のイベントに参加できます。	
		PM	宿泊先チェックアウト(World Port Days に参加しない人）	
9/8	日	AM	宿泊先チェックアウト	
		PM		