



International School

«ARCTIC ENGINEERING»

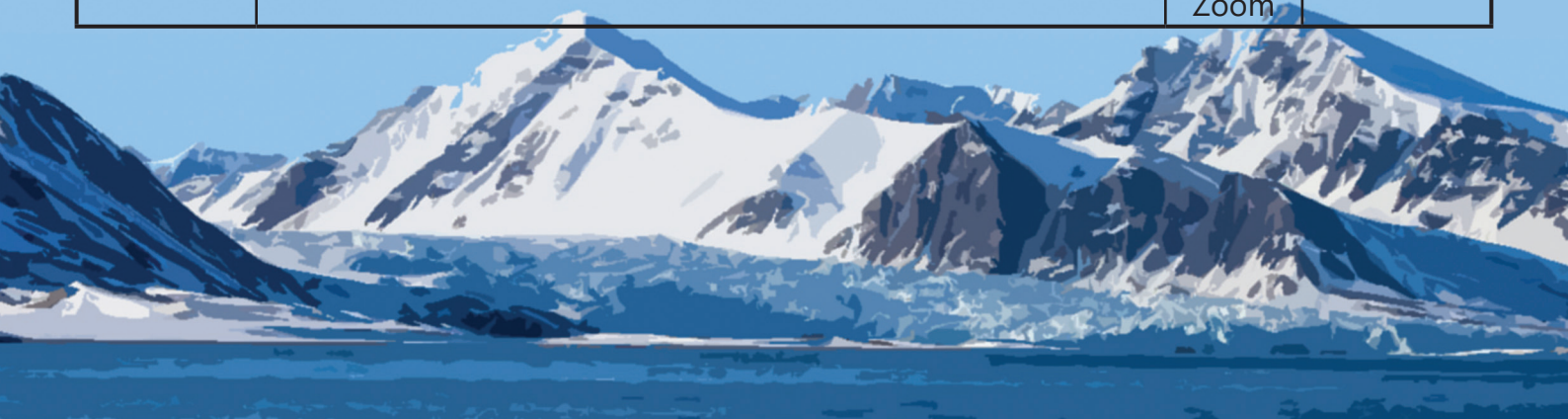
20.09.2021 – 25.09.2021



INTERNATIONAL SCHOOL «ARCTIC ENGINEERING»

20-25 September 2021
Online

Date	Subject	Place	Time
Day 1, September 20 th	Opening ceremony	Zoom	09 ⁰⁰ -09 ³⁰
	"NArFU - is a brand new ambitious university of distinctiveness and innovations designed to meet the needs of the Arctic" <i>Prof. P. Maryandyshev</i>	Zoom	09 ³⁰ -10 ⁰⁰
	"Hydrocarbon Resources Development and the Environment in the Arctic" <i>Prof. A. Zolotukhin</i>	Zoom	10 ⁰⁰ -11 ³⁰
	Topic for the group work and further presentation development (Case Championship) (Case Championship)	Zoom	11 ³⁰ -12 ⁰⁰
	Virtual tour, Arkhangelsk city	Zoom	12 ⁰⁰ -12 ³⁰
	Virtual tour, Malye Karely	Zoom	12 ³⁰ -13 ⁰⁰
Day 2, September 21 th	"Novel materials: self-cleaning methodology" <i>Prof. Dr Jonjaua Ranogajec</i>	Zoom	09 ⁰⁰ -10 ³⁰
	"Laboratory studies of rock samples and hydrocarbons in the Arctic Oil and Gas Innovative Technological Center (AOG ITC)" <i>Engineer of The AOG ITC Belozarov I.P.</i>	Zoom	10 ³⁰ -12 ⁰⁰
	"Icing on Structures in Arctic Region- An Engineering Perspective" <i>Prof. Muhammad Virk</i>	Zoom	13 ⁰⁰ -14 ³⁰
	"Energy efficient materials in Cold Regions" <i>Prof. Mohamad Y. Mustafa</i>	Zoom	14 ³⁰ -16 ⁰⁰
Day 3, September 22 th	<i>Introduction of NArFU</i>	Zoom	09 ⁰⁰ -10 ³⁰
	"Alternative energy sources in the High North" <i>Prof. P. Maryandyshev</i>	Zoom	10 ³⁰ -12 ⁰⁰
	"Features of the design of seaports in the Arctic" <i>Prof. Dr Igor Kantarzhi</i>	Zoom	12 ³⁰ -13 ³⁰
	Group work	Mural/ Zoom	14 ⁰⁰ -16 ⁰⁰
Day 4, September 23 th	<i>Introduction of NArFU</i>	Zoom	09 ⁰⁰ -10 ³⁰
	"Mathematical tools to estimate the energy potential in the Arctic" <i>Prof. Alain Brillard</i>	Zoom	10 ³⁰ -12 ⁰⁰
	"Ecologically green material in the Arctic conditions" <i>Maria Frolova</i>	Zoom	12 ³⁰ -13 ³⁰
	Group work	Mural/ Zoom	14 ⁰⁰ -16 ⁰⁰



Date	Subject	Place	Time
Day 5, September 24 th	Admission in NArFU	Zoom	09 ⁰⁰ -10 ³⁰
	"Long-range transport of persistent organic pollutants: modeling and monitoring" <i>Prof. Yi-Fan Li</i>	Zoom	10 ³⁰ -12 ⁰⁰
	"Hydrocarbons Treatment" <i>Prof. Jens Hüppmeier</i>	Zoom	12 ⁰⁰ -13 ³⁰
	Group work	Mural/ Zoom	13 ³⁰ -16 ⁰⁰
Day 6, September 25 th	"Workshop and project presentation of the group work of students"	Zoom	09 ⁰⁰ -13 ⁰⁰
	Reward and closing ceremony	Zoom	14 ⁰⁰ -16 ⁰⁰

Case Study: Design of the Oil and Gas Production Platform in the Arctic Shelf

The participants of the school will generalize the knowledge gained from the lecturers of the school and will take part in the design of a unique structure - the oil and gas platform, installed in the most severe conditions on the planet - the Arctic shelf!

When designing, it is necessary to take into account both the technological features of the platform and the selection of materials. Do not forget about the environmental, transport and economic aspects.

