Introduction to Marine & Offshore Trends (IMOT) *Public run* Schedule 2021

Session	Topic	Contents	Trainer
4 May	Energy	(a) renewable energy market	ΥH
Tues	business,	(b) LNG market	Chua
1003	Design of	(c) Some design aspects of LNG carrier	
	LNG carrier	Structural aspect	
		cargo handling aspect	
		hydrodynamic aspect	
	1110	cargo containment aspect	<u> </u>
6 May	LNG	(a) Pretreatment of natural gas Condensate removal	Dr Zhou
Thur	processing	Acid gas removal	Xingding
		Dehydration	
		Mercury removal	
		(b) Liquefaction of natural gas	
		• Precooling, 25 °C to -30°C	
		• Liquefaction, -30 °C to -120°C	
		 Sub-cooling, -120 °C to -150 °C 	
11 May	LNG	(c) Regassification of LNG	Dr Zhou
_	processing	(d) LNG process equipment – Construction and	Xingding
Tues		characteristics	Alliganig
40 Mari	Photovoltaic,	Introduction: Trends of Renewable Energy	Tan B L
18 May	Wind and	PV:	Ianbl
Tues	Hydro Power	(a) Key operating components: PV, MPPT, Battery, BOS	
	,	(b) Operational factors: mono/poly crystal, sun hour, tilt	
	13 May Thur	angle	
	= Public		
	Holiday (Wind:	
	Hari Raya	(a) Key operating components: Nacelle, Blade, Tower	
	Puasa)	(Gearbox, Generator, Inverter, Control)	
		(b) Operational factors: Wind speed, Altitude	
20 May		Hydro:	Tan B L
20 May		(a) Key operating components: Penstock, Turbine,	I Idii D L
Thur		Generator, Spillway	
		(b) Type of Turbines: Pelton, Kaplan	
		(c) Operational factors: Head, Flow Rate	
		Overall Power Layout - Systems and substations:	
		(a) the overall power layout from the last further most	
		turbine/solar panel/hydro-turbine to the 1st land substation	
		(b) the in-line features within the system	
25 May		TEST (F2F)	ΥH
Tues			Chua
1 403	<u> </u>		

All lessons evening 6 to 10 pm except Test day 10 am to 11 am