Underwater Technology Specialization Subject TMR4585 - 2019

Course plan

Possible Lecture times:

- Thursdays 14:15 – 16:00 – Room:T3

Date	Content	Material	
29.08	Introduction, Pipeline material		SS
	selection and wall thickness design		
05.09.	Pipeline installation construction and		SS
	welding, hydrodynamic stability		
12.09.	Pipeline heat transfer, thermal		SS
	buckling behaviour and free span		
	issues		
26.09.	Fieldworks Gunnerus		ML
03.10	Seabed mapping I	App note CARIS	ML*
		Survey handbook	
10.10	Seabed mapping II	Ludvigsen 2010	ML
		Survey handbook	
17.10	Underwater navigation	Ludvigsen 2010	ML
		Hegrenes 2010	
		Liam 2014	
		Anonsen 2013	
		Kebkal 2013	
		Survey handbook	
24.10.	Data processing / Error propagation	B. Jalving Horizontal accuracy	ML
	and analyses for underwater	Jalving 1999	
	navigation and seabed mapping	Gade 2005	
24.40	Dath planning	Offshore survey handbook	N 41 *
31.10	Path planning		ML*
07.11	Path planning II / obstacle avoidance		ML
14.11	Autonomy		ML
	Models		
	Architecture for deliberate		
	control		
21.11	Mission management systems AUVs		ML
	a. DUNE/ROS		
	Project presentation and hand in		
28.11	Oral exam/project defence		ML/SS
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ML: Martin Ludvigsen

SS: Svein Sævik