

해양구조물시공 (OSE632)**Construction of Offshore Structures**

(여름학기 2011, 화/목 9:00~11:00, 강의실: N27-1108)

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교과목개요

본 교과목에서는 다양한 해양구조물의 시공에 대한 세미나 수업을 진행하고자 한다. 해양환경에 대한 지식을 바탕으로 해양구조물의 재료, 장비, 작업, 지반처리 등 기본적인 해양시공에 대한 내용을 우선 다루고, 연안구조물, 해양플랫폼, 중력식구조물, 부유식구조물, 해저파이프라인, 케이블 등의 제작과 설치에 대한 개별적인 방법들을 학습한다. 또한, 심해시공/작업과 극지방 구조물에 대한 기본적인 지식을 얻고자 한다.

강의일정

Period	Contents	Period	Contents
1 week	Physical environmental aspects of marine and offshore construction & geotechnical aspects (Seafloor and marine soils)	9 week	Harbor, river, and estuary structures (II)
2 week	Ecological and societal impacts of marine construction & materials and fabrication for marine structure	10 week	Coastal structures & offshore platforms (steel jackets and pin piles)
3 week	Marine and offshore construction equipment	11 week	Concrete offshore platforms (Gravity-base structures)
4 week	Marine operations (I)	12 week	Permanently floating structures & other applications of marine and offshore construction technology
5 week	Marine operations (II)	13 week	Installation of submarine pipelines & plastic and composite pipelines and cables
6 week	Seafloor modifications and improvements & installation of piles in	14 week	Topside installation, hookup, repairs to marine structures, strengthening existing

	marine and offshore structure (I)		structures & removal and salvage
7 week	Seafloor modifications and improvements & installation of piles in marine and offshore structure (II)	15 week	Constructability & construction in the deep sea
8 week	Harbor, river, and estuary structures (I)	16 week	Arctic marine structures

교과서: Construction of Marine and Offshore Structures (Ben C. Gerwick)

Grade: 발표 (70%) + 수업참여 (30%)