

Course Outline

LECTURE	TOPIC	PRIMARY READING
1	Advances in Maritime Transportation and Globalization of Port Activities	AR1, AR5
2	Port Functions, Players and Stakeholders/Port Management and Ownership Models	A, AR1, AR2, AR5
3	Engineering Aspects of Port Development (Berth and Terminal Design, Breakwaters, Access Channels and Basins)	A, AR2
4	Container Terminal Planning, Management and Operations	A, AR2, AR5
5	Bulk Terminal Planning, Management and Operations	A, AR2
6	Passenger, Ferry and Ro/Ro Terminal Planning, Management and Operations	A, AR2
7	Modeling Port Systems and Processes	AR4, AR5
8	Financing Port Development and Public Private Partnerships in Ports	AR1, AR3, AR5
9	EXAM	
10	Port pricing	AR1, AR3, AR5
11	Environmental Management and Safety in Ports	AR5
12	Legal and Regulatory Aspects of Port Management	AR1, AR5
13	Port Security	AR5
14	Human Resources Management and Labor Issues in Ports	AR1, AR5

Detailed Course Outline

- Advances in Maritime Transportation and Globalization of Port Activities
 - General Considerations
 - Advances in liner shipping and the impact on ports
 - The emergence and the function of Global Port Operators
- Port Functions, Players and Stakeholders/Port Management and Ownership Models
 - Detailed description of port functions and their evolution
 - Players and Stakeholders in the Port Community and the dynamics of their interactions
 - The various port management and ownership models, their impact on the Port Authority's functions and on the dynamics of the Port Community Players
- Engineering Aspects of Port Development
 - Berth and Terminal Design
 - Breakwaters
 - Access Channels
 - Basins
- Container Terminals
 - Planning
 - Management
 - Information Flows
 - Operations
- Bulk (Dry and Liquid)Terminals
 - Planning
 - Management
 - Information Flows
 - Operations
- Passenger, Ferry and Ro/Ro Terminals
 - Planning
 - Management
 - Information Flows
 - Operations
- Modeling Port Systems and Processes
 - Port and Shipping Systems Dynamics
 - Resources Allocation in Port Systems
 - Seaside/Landside Port Systems Interface
 - Intraterminal Systems and Processes
 - Terminal/Land Systems Interface
- Financing Port Development and Public Private Partnerships (PPPs) in Ports
 - Port Financing and Investment/Principles and Practices
 - Port Privatization and PPPs in the Port Sector
 - Globalization in Port Operations and their impact on port financing and development
- Port pricing
 - Port Pricing Principles and Practices
 - Shipping and Ports Globalization, Port Competition and Pricing Practices
 - Port Pricing in US

- Environmental Management and Safety in Ports
 - Ports and the Environment/The US and the International Legal Framework
 - Environmental Impact of Port Development
 - Environmental Impact of Port Operation
 - Environmental Certification of Port Activities
 - Safety in Port Operations
- Legal and Regulatory Aspects of Port Management
 - International Legal Framework and Ports
 - The US Legal and Regulatory Framework affecting Port Activities
- Port Security
 - Port Security and the Supply Chain
 - The International Legal Framework for Port Security
 - Security Initiatives and Legislation in US relating to port operations
 - Federal Agencies and Government Authorities at Seaports
 - Technologies and their application in Port Security
 - Terminal Operations and Security Control Integration
- Human Resources Management and Labor Issues in Ports
 - Principles of Human Resources Management in Ports/ US and Global Practices
 - Deregulation in port activities and the impact on port labor force
 - Advances in technology and the impact on port labor force
 - Development of training for port labor force
 - Labor force assignment in port operations