

Course title	<b>Ocean Environment Policy &amp; Coastal Zone Mgmt</b>									Course No	<b>OE5340</b>			
Department	Ocean Engineering	New	L	T	E	P	O	C	TH	Old	L	T	P	C
		Credits	3				6	9		Credits	3			3
Offered for	Ph.D.; M.S.; M. Tech.; B. Tech. 4th year									Status	Modified			
Faculty	<b>Prof Shanmugam P</b>									Type	Theory			
Pre-requisite	None									To take effect from	01-01-2022			

**Objectives:**

To give students firm knowledge of ocean policies and laws and CZM techniques to ensure the protection, maintenance, and restoration of the health of the ocean and coasts.

**Course Contents:**

1. Functions and utility of the Ocean environment; Essential parameters to frame Ocean Policy, regulation and laws; Sources of Ocean/ Marine pollution, their containment mitigation and impact on environmental degradation; pollution in Coastal Zones; Concept of sustainability with regard to marine environment. Resources of the ocean both living and nonliving, Management and Economic issues of resources. Exploration and exploitation of ocean resources in relation to utilisation and marine policy. Ocean governance; the international law commission of 1950; Geneva Convention - 1958; Conventions on the Territorial sea and contiguous zone; the Continental shelf; the high seas and on fishing and conservation of living resources of the high seas. Law of the sea – UNCLOS; most innovative components of the convention; importance of Exclusive economic zone (EEZ), a new regime for marine scientific research and its role in sustainable development; the principles of common heritage of mankind and reservation for peaceful purposes dealing with both. Post UNCLOS developments; UNCLOS and UNCED; Analysis and synthesis of agenda 21; Chapter 17 of UNCED; Marine sciences and Technologies in the new Ocean regime. Ocean governance in coastal states. Requirement for coastal zone management; Concept of integrated coastal zone management (ICZM) systems approach to ICZM; Coastal zone Regulations and their importance.

**Text Books:**

1. E.M. Brogese, Ocean Governance and the United Nations, Centre of Foreign Policy Studies, Dalhousie University, Halifax, 1995. 2. E. Frankel, Ocean Environmental Management, Prentice Hall PTR, Englewood Cliffs, New Jersey, 1995. 3. Luc Cuyvers, Ocean Uses and their Regulation, Wiley Interscience, John Wiley and Sons, 1984. 4. R.R. Churchill and A.V. Lowe. The law of the sea. Manchester: Manchester House, 1987.

**Reference Books:**

B. Cicin - Sain and R.W. Knecht, Integrated Coastal and Ocean Management, Island Press, Washington, 1998. 2. United Nations Conference on Environment and Development. " Protection of the Oceans, all Kinds of Seas, including enclosed and semi – Enclosed Seas, and Coastal Areas and the Protection, Rational Use and Development of their Living Resources " Agenda 21, Chapter 17. Rio de Janerio, 14 June 1992 3. United Nations, 48th Session. Agreement relating to the implementation of Part XI of the United Nations Convention on the Law of the Sea of 1982, 17 August 1994, A/RES/48/263. 4. World Commission on Environment and Development. Our Common Future. Oxford: Oxford University Press, 1987 (also Known as the Bruntland Report). 5. Sustainable Development, Science and Policy – The Conference Oslo: The Norwegian Research Council for Science and the Humanities, August 1990.