

SE655: Offshore Structures

Teaching Scheme			Credits C	Marks Distribution				Total Marks
L	T	P		Theory Marks		Practical Marks		
				ESE	CE	ESE	CE	
3	2	0	5	70	30	30	20	150

Course Content:

Sr. No	Topics	Teaching Hrs.
1	<u>Concept of wave, Linear and non-linear wave theories, wave forecasting:</u>	06
2	<u>Fluid structure interaction problem:</u>	12
3	<u>Analysis of fixed and floating type offshore structures, Fatigue analysis stochastic analysis of offshore structures:</u>	12
4	<u>Soil-structure interaction problem, Marine concrete, Construction of offshore structures, Marine pipelines, case studies:</u>	12
Total Hrs.		42

Reference Books:

1. Srinivasan Chandrasekaran, “*Advanced Marine Structures*”, CRC Press press Taylor & Francis group.
2. Yong Baifrom, “*Marine Structural Design*”, Elsevier.
3. Ben C. Gerwick Jr, “*Construction of Marine and Offshore Structures*”, CRC press Taylor & Francis group.