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List of Topics Covered

UNIT I	WAVES GENERATION, PROPAGATION AND FORCE	9
<p>Definition – Wave classification – Linear theory of waves- Assumptions and derivations of relationship of wave characteristics- Pressure within progressive wave- Wave energy -Fundamental aspects of stokes theory.</p>		
UNIT II	WAVE FORECASTING	9
<p>Need for forecasting – SMB and PNJ methods of wave forecasting.</p>		
UNIT III	TIDES	9
<p>Origin and classification of tides - Karwin’s equilibrium theory of tides- Effects on structure -Seiches, surges and Tsunamis.</p>		
UNIT IV	SEDIMENT MOVEMENT	8
<p>Types of sediment movement – Types of beaches and beach profile – long shore drift and its engineering significance – Causes of coastal erosion and methods of protection.</p>		
UNIT V	HARBOURS	10
<p>Classification - types of their requirements – Requirements of modern port -Selection of site. BreakWater and their types of selection - Functional design of entrance Channel and breakwaters- Dredging - Need & types of selection of dredgers.</p>		