Course Number and Name

**BCE076 - COASTAL ENGINEERING** 

Credits and Contact Hours

3 & 45

Course Coordinator's Name

Ms.B.Kaviya

Course Objective

- To provide an overview of the analysis and design procedures used in the field of coastal engineering.
- To introduce the processes of including coastal and estuarine circulation, coastal and shelf waves, surf zone hydrodynamics, sediment transport, hurricane-induced storm surge and inundation, beach nourishment etc
- To enable students apply these engineering principles to solve the problems in this environment such as shoreline erosion, natural flooding hazards, water quality deterioration and coastal habitat evanescence.

evanescence.							
Prerequisites	Co-requisites						
Fluid Mechanics	NIL						
required, elective, or selected elective (as per Table 5-1)							

Course Outcomes (COs)												
CO1	To pro	To provide an overview of the fundamental principles of ocean science and technology.										
CO2	To provide the background needed to undertake coastal oceanographic investigations and sets them in context by incorporating case studies and sample problems based on local and global examples.											
CO3	To facilitate students to work across disciplinary boundaries and develop an approach that will enable them to incorporate human society in their exploration and analysis of coastal areas.											
CO4		To be able to "see" the features and components of the natural, engineering and human aspects of the coast, the functions of components and relationship between them.										
CO5	-	To provide students understanding of the materials and processes associated with the major natural natural and artificial harbours.										
Student Outcomes (SOs) from Criterion 3 covered by this Course												
COs/SOs	а	b	с	d	e	f	g	h	i	i	k	]

COs/SOs	a	b	c	d	e	f	g	h	i	j	k	
CO1	Н											
CO2	Н		М									
CO3	Н					Н				М		
CO4	Н											1
CO5	Н											-