

Course Number and Name												
BCE304 - FLUID MECHANICS												
Credits and Contact Hours												
3 & 45												
Course Coordinator's Name												
Ms.T.Aarthiharini												
Course Objective												
<ul style="list-style-type: none"> To understand the basic properties of the fluid, fluid kinematics, fluid dynamics and to analyze and appreciate the complexities involved in solving the fluid flow problems. To introduce the basics of hydrostatic forces involved in fluid mechanics and also to acquaint the students to learn about the theorems on Pascal's law and buoyancy To understand the various types of fluid flow and to practice the problems based on Bernoulli's equations and its applications To provide basic ideas on the boundary layer theorem and its classification along with problems underlying the subjects. To develop similitude and model studies for the basics of fluid mechanics with Buckingham's pi theorem as the basic concept. 												
Prerequisites						Co-requisites						
Engineering Mechanics						NIL						
required, elective, or selected elective (as per Table 5-1)												
Course Outcomes (COs)												
CO1	To learn about the basics of fluid mechanics and various properties of fluids											
CO2	To learn about the various forces on plane and curved surfaces and the concepts of buoyancy											
CO3	To have a clear understanding about fluid kinematics and dynamics											
CO4	To study the basics of boundary layer flow and flow through pipes											
CO5	To study about various models like distorted models and various dimensionless numbers											
Student Outcomes (SOs) from Criterion 3 covered by this Course												
COs/SOs	a	b	c	d	e	f	g	h	i	j	k	
CO1	H			M						L		
CO2						H		L				M
CO3				H					M			
CO4						M			H	L		
CO5					M							