Course Number and Name	
BMA501 - PROBABILITY AND STATISTICS FOR CIVIL ENGINEERS	
Credits and Contact Hours	
4 & 45	
Course Coordinator's Name	
Dr.Ramya	
Course Objective	
• To develop a thorough understanding of the methods of probability and statistics which are used to model engineering problems.	
Prerequisites	Co-requisites
Numerical method	NIL
required, elective, or selected elective (as per Table 5-1)	

Course Outcomes (COs)	
CO1	To apply the basic rules and theorems of probability theory such as Baye's Theorem, to determine probabilities that help to solve engineering problems and to determine the expectation and variance of a random variable from its distribution
CO2	To appropriately choose, define and/or derive probability distributions such as the Binomial, Poisson and Normal etc to model and solve engineering problems
CO3	To learn how to formulate and test hypotheses about means, variances and proportions and to draw conclusions based on the results of statistical tests.
CO4	To understand how regression analysis can be used to develop an equation that estimates how two variables are related and how the analysis of variance procedure can be used to determine if means of more than two populations are equal.
CO5	To understand the fundamentals of quality control and the methods used to control systems and processes.

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	H		M			M	
CO2			M								
CO3	M			H						M	
CO4					H		H				
CO5	H									H	