

Course Number and Name												
BCE078 - STUCTURES ON EXPANSIVE SOILS												
Credits and Contact Hours												
3 & 45												
Course Coordinator's Name												
Dr. R. Venkata Krishnaiah												
Course Objective												
<ul style="list-style-type: none"> • To understand the dynamics of earth and to estimate dynamic properties of soils • To develop the site specific design spectrum for design of sub structure and evaluation of liquefaction potential. • To design these structures in expansive soil • To study the effectiveness of some supper structure resting on treated expansive soil • Factors influencing mechanisms in expansive soils 												
Prerequisites						Co-requisites						
Soil Mechanics						NIL						
required, elective, or selected elective (as per Table 5-1)												
Course Outcomes (COs)												
CO1	To understand the dynamics of earth and to estimate dynamic properties of soils											
CO2	To improve the engineering properties and make it suitable for construction											
CO3	The engineering properties, problems and solution need to be considered when constructing a foundation on expansive soils.											
CO4	To develop the site specific design spectrum for design of sub structure and evaluation of liquefaction potential.											
CO5	To study the behaviour of the stabilized soil subjected to cyclic loading											
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	H	M							
CO2	H	M	H	M	M							
CO3	M	M	L	H	M							
CO4	H	H	M	H	M							
CO5	M	M	M	H	M							