Common Manufactura and Manufac															
Course Number and Name BCE067 - ENVIRONMENTAL HEALTH ENGINEERING															
Credits and Contact Hours 3 & 45															
Course Coordinator's Name															
	P.Rajas														
Text Books and References															
TEXT BOOKS:															
Anjaneyulu D., "Air Pollution and Control Technologies", Allied Publishers, Mumbai, 2002.															
REI	REFERENCES:														
 Rao, C.S. Environmental Pollution Control Engineering, Wiley Eastern Ltd., New Delhi, 1996. Rao M.N., and Rao H. V. N., Air Pollution Control, Tata-McGraw-Hill, New Delhi, 1996. Stern A.C. ed, "Air Pollution Vol. I, II & III", Academic Press, New York, 1968 Cunniff P.F., "Environmental Noise Pollution", John Wiley & Sons, New York. 1977. Docks H.M., "Environmental Pollution", John Wiley & Sons. New York 1981. Chanlett T Emit, "Environmental Protection", McGraw Hill series in Water Resources and Environmental Engineering, New York. 1973. Patrick C.F., "Environemental noise pollution", John Wiley & Sons, 1977. 															
Cou	rse Desc						,		J						
To bring about an understanding of the prefabrication and construction techniques adopted															
		Env		requisite		~		Co-requisites							
Environmental Engineering NIL required, elective, or selected elective (as per Table 5-1)															
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Course Outcomes (COs)															
CO		То	learn ab	out the	air pollu	itants, so	ources a	nd its e	ffects.						
CO2 To have a clear understanding on the air								uality standards and its techniques.							
CO3 To determine the fluid resistance for organic materials.															
CO4 To find the Properties of air pollution and its control measures.															
CO	5	То	learn at	out the	effects a	and the s	sources	of noise	pollutio	on.					
Stuc	lent Outc	ome	es (SOs)	from C	riterion	3 cover	ed by th	is Cour	·se						
COs/S			a	b	c	d	e	f	g	h	i	j	k		
	CO1		Н	L				M	Н						
	CO2				Н						L				
	CO		1	M		Н			Н		Н			1	
	CO4		Н							M	M			-	
	ac -						1				1		1	-	

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CO5

List of Topics Covered

UNIT I INTRODUCTION

9

Definition of clean air, nature, air pollutants, sources of air pollutants, effects of air pollution on man, animal, vegetation and properties.

UNIT II AMBIENT AIR QUALITY STANDARDS AND AIR QUALITY MONITORING

Harmful concentration – geographical factors in air pollution – air pollution control legislation. Classification sampling; sampling techniques; monitoring atmospheric pollution.

UNIT III FLUID RESISTANCE TO PARTICLE MOTION

9

Principles of removal of a gaseous constituent; adsorption and combustion; catalytic combustion of organic materials; catalytic oxidation and decomposition.

UNIT IV AIR POLLUTION AND CONTROL MEASURES

9

Setting chambers; momentum separators, fibrous filters; electro static precipitators; bag houses centrifugal spray scrubbers; venture scrubbers; elementary principles of air pollution e-control techniques.

UNIT V NOISE POLLUTION

8

Sound and noise; sources of noise pollution, environmental and industrial noise; effects of noise pollution: measures for prevention and control of noise; environmental and industrial noise; noise control legislation.