Course Category:				Program Elective							Credits			2	
											Lecture-Tutorial-			5	
Course Type:				Theory							Practical:			3-0-0	
Prerequisites:				19CE3404- Environmental Engineering, 19MC1301 - Environmental Science							Continuous			30	
											Evaluation:				
											Semester End			70	
	1										Evaluation:			/0	
					Total Marks: 10										
Course Outcomes															
Upon s	Upon successful completion of the course, the student will be able to:														
COL	Und	Understanding of the elements of EIA and criteria for the selection of EIA													
	meth	methodology in different methods.													
CO2	Asse	Assess Impacts on surface water environment, air pollution sources, and suggest													
	appr	appropriate mitigation measures.													
CO3	Com	prehen	d Imp	act of	develo	opmen	t activ	ities o	n vege	etation a	& wildli	fe and p	prepare	<sub>V</sub> 2	
	envi	environmental audit report.													
CO4	Dem	onstra	te the	option	s to es	timate	enviro	nment	al laws	5.				K2	
COF	Ana	Analyze proposed development project case studies for possible environmental effects													
	and prepare environmental impact assessment report for various industries.												<b>K</b> 4		
		Contri	bution	of Cou	irse Ou	itcome	s towa	rds_ach	ieveme	ent of Pr	ogram C	outcomes	8	•	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	
CO1	2					3	3				2		3	2	
CO2	2					3	3				2		3	2	
CO3	2					3	3				2		3	2	
CO4	2					3	3				2		3	2	
CO5	2					3	3				2		3	2	
Avg.	2					3	3				2		3	2	
		1- Lo	)W				2-Me	dium				3-High			
						Cou	rse (	Cont	ent						
		NTDO	пист	ION	TOF	<u> </u>	MET			IFS. B	osic cor	cent of	EIA		
	1	INTRODUCTION TO EIA & METHODOLOGIES: Basic concept of EIA,													
		ntial Cl		nron	Dration	of	n, iaci	ons an	ol De		$\mathbf{r}$ , mpa	cificatio	n of	CO1.	
			alysis,	prepa	aration	01	Enviro		al Da	ise ma	p, Clas	sincatio			
UNIT-		1VIFOII	tion (	param Suitonio	eters.		ation		Math	adalaar		A ath a da	L.A.		
			uon, C	Matrie	i IOF th	ic sele	Email			odia C-	y, EIA I	vietnous	, Au-		
		JC met	moth -	INCLW	ork m	cilioa,	EllVlr	omnen	nai IVI	edia Ql	ianty Ir	idex me	anoa,		
		Overlay methods, Cost/benefit Analysis													
	P	REDIC	CTION	N ANI	) ASS	ESSM	ENT	OF IN	<b>IPAC</b>	TS ON	GROU	ND WA	TER		
	E	ENVIRONMENT & SURFACE WATER & SOIL & AIR POLLUTION													
UNIT		IMPACTS: Impact of Developmental Activities and Land use, Introduction and													
	-2   N	Methodology for the assessment of soil and ground water, Delineation of study													
	a	area, Identification of actives. E I A in surface water, Air pollution. Methodology													
	f	for the assessment of Impacts on surface water environment, Air pollution sources.													
	G	enerali	zed ap	proach	n for A	ssessn	nent of	Air Po	ollution	n Impact	ts.				
	D	EFOR	ESTA	TION	& EN	VIRC	ONME	NTAI		DIT: Ass	sessmen	t of Imp	act of		
	d	development Activities on Vegetation and wildlife. Environmental Impact of													
		eforest	ation	-Caus	es and	l effec	ts of	defore	estation	n. Envii	onment	al Audit	t and	CO3	
UNIT-	-3   o	bjective	es &	types	s of	enviro	onment	al A	udit.	Audit	protocol	, stage	s of		
	E	nvironi	mental	Audit	, onsite	e activ	ities, e	valuati	ion of	Audit da	ata and r	preparati	on of		
	A	Audit report.													
TINITE	, POST AUDIT ACTIVITIES													CO4	
UNIT-	-4   T	he Env	vironm	ental p	ollutio	n Act,	The v	vater A	Act, Tł	ne Air (1	Preventi	on & Co	ontrol	CO4	
						Pa	ige <b>18</b> 9	3 of 76	8						

## 19CE4702E – ENVIRONMENTAL IMPACT ASSESSMENT

	of Pollution Act.), Mota Act, Wild life Act.								
UNIT-5	<b>EIA CASE STUDIES &amp; MANAGEMENT REQUIREMENTS FOR THE</b> <b>PREPARATION OF EIA OF INDUSTRIAL PROJECTS</b> Case studies on Land Use/ Land Cover, Development Projects for Initial Environmental Examination, Assessment of Impacts of Traffic & Transportation, and Preparation of Environmental Impact Assessment statement for various Industries.								
Learning Resources									
Text Bo	1. Environmental Impact Assessment Methodologies by Y.Anjaneyulu, B.S. Publication, Sultan Bazar, Kakinada.								
Refere Book	2. Environmental Science and Engineering, (2nd edition) by Glynn, J. and Gary, W. Hein Ke., Prentice Hall Publishers, 1996.								
e-Resour other dig	1. Environmental Science and Engineering by Suresh, K. Dhaneja S.K. Katania& Sons Publication, New Delhi.								