20CE4701C - REMOTE SENSING AND GE	OGRAPHICAL INFORMATION SYSTEM

		Branche		CE												
Cou	rse C	ategory	:	Program Elective							Credit	3				
С	ourse	Type:		Theory Lecture Prac							cture-Tu Practic		3-0-0			
Continu Evaluat							30									
Prerequisites:				20CE3306 – Surveying							emester Evaluat	70				
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Course			1.7	6.4		4 4	1 4 3	11.1 1	1 .							
CO1	Und	sful com erstand	ing of	aerial p	ohotogr					ote sensir	ng sensor	s and pla	atforms,	K2		
CO2	Арр	<u> </u>	owled	ge of te		issues	relating	to the s	storage,	manager	nent, ana	ılysis and	display	K3		
CO3	Inte				orocessi	ng seq	uence a	ind its i	importa	ince in R	emote S	ensing &	Spatial	K2		
CO4		raise or	GIS	Map Pi	rojectio	ns, but	fering	techniq	jues, ra	ster data	models	and vec	tor data	K4		
CO5	Dev							-		ban char		-		K6		
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CO1	<b>PO1</b> 2	PO2	PO3 2	PO4	PO5 2	PO6	P07 2	PO8	PO9	PO10	PO11	PO12 2	PSO1 2	<b>PSO2</b>		
$\frac{CO1}{CO2}$	2		2		2		2		2			2	2	2		
CO3	3		3		3		2		2			2	3	2		
CO4	2		2		2		3		3			3	2	3		
CO5	2		2		2		3		3			3	2	3		
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UNIT-					0 0			•				ation. Re	mote	C01		
01111-	. 5	ensing A	pplica	tions, A	dvanta	ges and	1 Disad	vantage	es of Re	emote Se	nsing.			cor		
	I	Photogra	mmet	rv and	Types of	of Aeri	al photo	ographs	S. Stere	oscopy. N	Map Vs M	Mosaic, g	round			
		ontrol, S		•				0 1	,	1,5,7						
	I	Basic Co	ncept	of GIS:	Introd	uction	to GIS,	GIS Ca	ategorie	es, Spatia	l Data ar	nd Non- S	patial			
UNIT-		Data, Ba Classifica						ntal Op	peration	is of GIS	5, Projec	tions of	Maps,	CO2		
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												Pre-proce				
UNIT-												stration,				
	1	Enhancement. Image Classifications, Supervised Classifications, Unsupervised Classifications.														
				PRES	ENTA	TION:	Types	of Dat	a Repr	esentatio	n. Data	Collectio	n and			
UNIT	i													C04		
UNIT-4	1	input overview, data input and output. Keyboard entry, Digitizing and Scanning, Raster GIS, Vector GIS – File Management, Layer Based GIS, Feature based GIS mapping, GIS Data File Management. Buffering Techniques.										04				
								Introdu	otion .	whon nlo	nning th		duco/			
											-	eory, Lan tility Ma				
UNIT-						-								COS		
	NIT-5 Remote Sensing Platforms and Sensors Application in Urban Studies. Aerial Phot and Satellite Data in Urban Studies, Traffic Management, Urban Change Detec						-		005							
	N	/lapping	-													
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					Le	earn	ing l	Keso	urce	es						

	1. Remote Sensing and Geographical Information systems, (4th
T to the	edition) by M.Anji Reddy B.S. Publications, JNTU Kakinada, 2018.
Text Books	2. Remote Sensing and GIS, (2nd edition) By Basudeb Bhatta Oxford Higher
	Education.
	1. Remote Sensing and Image Interpretation, (6th edition) by Thomas
Reference	Lillesand. M and Ralph Kiefer W, 2007
Books	2. Remote Sensing of the Environment: An Earth Resource
	Perspective by John R. Jensen, 2009.
e- Resources &	1 http://www.i.a.
other digital	1. <u>http://nptel.ac.in/courses.php</u>
material	2. <u>http://jntuk-coeerd.in/</u>

Page **181** of **278**