Course	PAD21D09J	Course	SOCIAL ME	EDIA AND TEXT	Corres Cotogowy	ח	Dissiplina Specific El	laatina	L	T	P	C
Code	PAD21D09J	Name	ANA	LYTICS	Course Category	D	Discipline Specific El	ecuve	4	0	4	6
56%					yo.							
Pre-requ	isite Courses	Nil		Co-requisite Courses	Nil		Progressive Courses Ni	lil				
Course Offeri	ng Department	(	Computer Applications		Data Book / Codes/Standard	ds	Nil					

	3											8													
	Learning le (CLR):	The purp	ose of learning	this course is to:			Le	arn	ing				Pr	ogr	am	Lea	rni	ng (	Outo	com	es (	PLO	0)		
CLR-1	To leverage the pand model social			to extract, process	, analyze, visu	ıalize	1	2	3		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
CLR-2		•		dia platforms to un pts and techniques		model	Le						ı,												
CLR-3	Understand the fi	fundamenta	als of text minin	ıg			ve	Ex	Ex pe		ı u	Ap pli	nk wi		Sk	Ab ilit		An			Co			Pr	Lif
CLR-4	Utilize text for prediction techniques							d	cte d		am	cat	th	ed	30,000	to	ills	ze,	In ve	le	m	An aly	IC	of ess	e Lo
CLR-5								100000	At tai	1 1	ent al Kn	n	lat	ur al	eci		M	nte	sti gat ive	So	ica	tic	T Sl	10 nal Be	ng Le
CLR-6									me nt		led	nc	sci	ow led	zat	Kn	eli	et	Sk ills	ng	n	Sk ills	1IIS	ha	ar ni
							0	-	(%		ge	ept	DHI	ge	n	led ge		ta		ills					ng
	Learning es (CLO):	At the en	d of this course	, learners will be a	ble to:		m)	5					S						¥-						
CLO-1	Understand the b	basics of so	ocial media and	lytics and R langua	ige		3	80	70		L	Н	16	Н	L		- 15		L	L		Н		100	· <u>·</u>
CLO-2	Analyze data fron	m major so	ocial media cha	nnels such as Twitt	er & Flickr		3	85	75		M	Н	L	M	L	-	T.		M	L	-	Н	ř	-	-
CLO-3  Acquire knowledge on fundamentals of text mining					3	75	70		M	Н	М	Н	L	ē	<i>5</i>		M	L	-	Н	-	15			
CLO-4	CLO-4 Perform prediction from text and evaluate it				3	85	80		M	Н	M	Н	L	-	-	1	M	L	<u></u>	Н	-	P <u>2</u> 3	( <u>1</u> 2)		
CLO-5	Perform documen	nt matchin	g				3	85	75		Н	Н	M	Н	L	-	j.		M	L	-	Н	200	);=)	
							_	_	_																

CLO-6 Understand how text mining is implemented	3	80	70	i c	L	Н	-	Н	L	-	-	-	L	L	S=3	Н	-		-	8
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Dura (hou	28	24	24	24	24	24
4.20	8.5	Getting Started with R and Social Media Analytics	Visualizing data	Overview of Text Mining	Using Text for Prediction	Finding Structure in a Document Collection
		• • • • • • • • • • • • • • • • • • • •	ivianaging packages	What's Special About Text Mining?	Recognizing that Documents Fit a Pattern	Collection
S-2	SLO-1	Social iviedia	Data analytics - Analytics workflow	Structured or Unstructured Data	에 맞았다. [1] 전 : [1] T	Clustering Documents by Similarity
3-2	SI 0-2	Disadvantages and Pitfalls of Social Media	Machine learning techniques	Is Text Different from Numbers?	Document Classification	Similarity of Composite Documents
	A 10 10 10 10 10 10 10 10 10 10 10 10 10	Social media analytics		What Types of Problems Can Be Solved?	Learning to Predict from Text	k-Means Clustering
3-3	SI O-2	A typical social media analytics workflow	Text analytics	Document Classification	Similarity and Nearest-Neighbor Methods	K-Ivicalis Ciustelling
S-4	SLO-1	Data access, Data processing and normalization, Data analysis and Insights	Understanding Twitter, APIs	Information Retrieval	Document Similarity	Hierarchical Clustering
	SLO-2	Opportunities and Challenges	Registering an application	Clustering and Organizing Documents	Decision Rules	
- S-8		Lab 1: Simple Text Analytics	Lab 4: Text Analytics	Lab 7: Working with Classification		Lab 13: implementing clustering algorithm
6.0	SLO-1	Getting started with R	Connecting to Twitter using R	Information Extraction	Decision Trees	The EM Algerithm
3-9	SLO-2	Environment setup	Extracting sample Tweets	Prediction and Evaluation	Scoring by Probabilities	The EM Algorithm
	SLO-1	Data types		From Textual Information to Numerical Vectors	Linear Scoring Methods	What Do a Cluster's Labels Mean?
S-10	SLO-2	Data structures-Vectors	Trend analysis	Collecting Documents	Evaluation of Performance - Estimating Current and Future Performance	Applications, Evaluation of Performance
S-11	SLO-1	Arrays	Sentiment analysis	Document Standardization	Getting the Most from a Learning Method	Case Study: Market Intelligence
3-11	energy of the commercial	Matrices	Key concepts of sentiment analysis  –Subjectivity, Sentiment polarity	Tokenization	Errors and Pitfalls in Big Data Evaluation	from the Web

S-12	SLO-1	Lists	Opinion summarization	Lemmatization-Inflectional Stemming		Case Study: Lightweight Document Matching for Digital
3-12	TOTAL DESTRUCTION	Data Frames	Features	Stemming to a Root	Is Information Retrieval a Form of Text Mining?	Libraries
S-13 - S-16	SLO-1	Lab 2: Working with Data structures	Lab 5: Working with Twitter data	Lab 8: Information Extraction	Lab 11:Decision Trees	Lab 14: EM Algorithm
S-17	SLO-1	Functions - Built-in functions	Sentiment analysis in R	Vector Generation for Prediction	Key Word Search	Mining Social Media
	SLO-2	User-defined functions		Multiword Features	Nearest-Neighbor Methods	
S-18		Controlling code flow - Looping constructs	Follower graph analysis	Labels for the Right Answers, Feature Selection by Attribute Ranking	Measuring Similarity -Shared Word Count	E-mail Filtering
	SLO-2	Conditional constructs	Flickr Data Analysis	Sentence Boundary Determination	Word Count and Bonus, Cosine Similarity	4.770
S-19	SLO-1	Advanced operations	Accessing Flickr's data	Part-of-Speech Tagging	Web-Based Document Search - Link Analysis	Emerging Directions
	SLO-2	apply, lapply	Understanding Flickr data	Word Sense Disambiguation	Document Matching	Summarization
		sanniv tanniv	Understanding interestingness – similarities	Phrase Recognition, Named Entity Recognition, Parsing		Active Learning
S-20		mapply	Are your photos interesting? - Preparing the data -Building the classifier	Feature Generation	Evaluation of Performance	Learning with Unlabeled Data
S-21 - S-24	SLO-1	Lab 3: Working with Looping and functions	Lab 6: Working with Flickr Data Analysis	Lab 9: Phrase Recognition	Lab 12: Nearest-Neighbor Methods	Lab 15: E-mail Filtering

Learning Resources	Raghav Bali, Dipanjan Sarkar, Tushar Sharma, (2017), "Learning Social Media Analytics with R", Packt Publishing.
Resources	Wiedla Arialytics with It , Fackt Fublishing.

 Sholom M. Weiss, Nitin Indurkhya, Tong Zhang, (2015), "Fundamentals of Predictive Text Mining", Second Edition, Springer London.

Learning Ass	essment										
	Diagm's			Continuous	Learning Ass	essment (50%	weightage)			Final Exa	
	Bloom's Level of	CLA -	1 (10%)	CLA –	2 (10%)	CLA -	3 (20%)	CLA – 4	(10%)#	(50% we	ightage)
	Thinking	Theory	Practice	Theory	Practice	Theory	Practice	Theory	Practice	Theory	Practice
Level 1	Remember	20 %	20 %	20 %	20 %	20 %	20 %	20 %	20 %	20 %	20 %

	Understand									3		
Level 2	Apply	20 %	20 %	20 %	20 %	20 %	20 %	20 %	20 %	20 %	20 %	
Level 2	Analyze	20 /0	20 /0	20 /0	20 /0	20 /0	20 /0	20 /0	20 /0	20 /0	20 /6	
Lovel 2	Evaluate	10.0/	10.0/	10.0/	10 %	10.0/	10 %	10 %	10.0/	10.0/	10.0/	
Level 3	Create	10 %	10 %	10 %	10 %	10 %	10 %	10 %	10 %	10 %	10 %	
	Total	100 % 100 %		0 %	100	0 %	100	0 %	100 %			

Course Designers		
Experts from Industry	Experts from Higher Technical Institutions	Internal Experts
	Dr.Muthu, Professor, Loyola College, Chennai	Mrs. S. Chandrakala, SRM IST
	Dr. Vincent, Associate Professor, VIT	

Course Code	PAD21P01L	Course Name	INTERNSHIP	Course Category	P	Indu	Project Work, Internship In Industry / Higher Technical Institutions							L	2522	P -	C 2		
Pre-requisite Co Course Offering		Computer Applic	Co-requisite Courses Nil ations Data Book / Co	des/Standards	Pro	gressive	Cours	es N	il	٨	lil							_	
Course Learning (CLR):	g Rationale	he purpose of lea	rning this course is to,	Lea	rning			Pro	ograi	m Le	arni	ng O	)utco	mes	(PL	0)			
CLR-2 : Explo CLR-3 : Enha CLR-4 : Unde	ore the different i		using IT	Le	Ex Ex pe cte cte d d At	sci	tic	Pr Ana	се	Te	ent ific	Re fle cti	Se If- Dir	uit	Et	Co m mu nit	IC	Le ad	Lif e Lo
Course Learning	g Outcomes (CL	O): At the end	of this course, learners will be able to:	nki ng (Bl oo m)	OTI Jair	Kn ow	Thi nki ng		ас	ork	Re as oni ng	Thi nki ng	Le ar nin q	Co	oni ng	ga	Ski Ils	Ski	l e
CLO-1: To ge	et an insight of a	n industry and org	anization/company	3	80 70	L	Н	- H	L	-	T	-	L	L	•	Н	-	Н	Н
CLO-2: To ga	ain valuable skills	and knowledge		3	85 7	5 M	Н	L M	L	-	-6		М	L	-	Н	-	Н	Н