

THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI-625015
(A Govt. aided Autonomous Institution Affiliated at Anna University)

DEPARTMENT OF INFORMATION TECHNOLOGY

S.No	One/Two credit course Gap/Need analysis sheet	
1.	Name of the Course	TECHNIQUES AND TOOLS IN DATA SCIENCE
2.	Name of the Industry	CTS COIMBATORE
3.	Name of the SIG associated with	Data Engineering
4.	Motivation for offering the course	To bridge the gap between the Programme course – Data Mining, Data Analytics Recent Data science tools like R,Tableau,Julia etc has been brought into this course.
4.1	Feedback (If yes, Details of the feedback as per the annexure I)	
	From Recruiter	Y/N
	From Employer	Y/N
	From Alumni	Y/N
	From Academic Council members	Y/N
	From Board of Studies members	Y/N
	From Senior students	Y/N
	From current students	Y/N
	From Performance Assessment Committee	Y/N
	From Department Advisory committee	Y/N
4.2	Faculty participation in Seminar/FDP (If yes, details)	
	At higher learning institutes	
	At Industry	
5.	Outcomes expected	
	Technology transfer	
	Student Internship	
	Placement	
	Organizing FDP/seminar at TCE	Yes, Planning on this proposal
	Collaborative research/consultancy projects	
	Faculty as Trainee/Trainer in the Industry	
	Joint publications	
	Setting up of Lab/Infrastructure	

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COURSE REPORT

Topics covered	Sessions handled
Data Science Landscape	
What is data science BI Vs Data Science	Session 1 (9.00 to 1.00PM)
Data Science Maturity in an organization(HANDS ON)	
Data Science Processes	
Key Activities in a data science assignment	Session 2 (2.00 to 5.00PM)
Fractal analytic model	
Missing values, outliers, dimensionality, overfitting(HANDS ON)	
Data Science Techniques	
Describe – central tendency, visualization-Through Tableau,GGPlot2	Session 3 (9.00 to 1.00PM)
Discover – Clustering, hypothesis testing-Using R(HANDS ON)	
Predict – Regression, classification methods-Using Python	Session 4 (2.00 to 5.00PM)
Advise – Simulation, optimization methods(HANDS ON)	
Total No. of hrs. handled	14

TCE-III-AS-P1/2

TCE-III



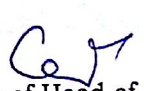
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Course Instructor Feedback for One/Two credit course

TCE-III

Name of the Course: Techniques and Tools in Data Science
Name of the Industry: CTS, Coimbatore
Name of the Expert: Mr. R. Ramanathan.
Date/Time/Venue: 15th and 16th October 2016, Motorola Lab.
9.00 to 5.00 p.m.

	Comments
Student attendance	100 %.
Level of the students in understanding the concepts	Good
Any suggestions regarding new content to be included as Prerequisites/Special electives	Regression.
Hall/Lab arrangements	Good
Hospitality	Good.


Signature of the Course Instructor
Signature of Head of the Department



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TCE-III

Course Schedule

Name of the Course: *Technique and Tools in Data Science*

Name of the Industry: *CTS, Coimbatore*

Name of the Expert: *Mr. R. Ramanathan*

Number of Students enrolled: *55*

Name of the Faculty: *K.V.UMA & S. Pudumalar*

Date/Time/Venue: *15th and 16th October 2016, 9.00 Am to 5.00 pm,
Motorola Lab.*

Documents Attached -

Date	Time	Topics	Remarks
Day1			
Day2			

Signature of the Faculty coordinator

39.	15IT126	Naveen Balaji B
40.	13IT82	Preetham S
41.	14IT62	Nihaarika KB
42.	14IT64	Nishanthini KJ
43.	14IT68	Pradeep Kumar G
44.	14IT74	Priyadharshini R
45.	14IT77	Promod S
46.	14IT78	Ragul R
47.	14IT96	Shiyamala Devi CR
48.	14IT98	Sivaranjani M
49.	14IT100	Srinidhi V
50.	14IT101	Sriram M
51.	14IT106	Suwasthika VG
52.	14IT111	Vanaselvi C
53.	14IT115	Vinmugil S
54.	14IT126	Ponmekala R
55.	14IT129	PriyaDharshini R

Thiagarajar College of Engineering
Department of Information Technology
2017-18 (Odd Semester)
One credit Namelist

Sub code/Name: 14IT1D0/Techniques and Tools in Data Science
Sem/Year: V/III

Sno	Regno	Name
1.	14IT123	Kiruthiga R
2.	15IT008	Amrish Kumar PP
3.	15IT014	Ashwin Kumar RP
4.	15IT017	Avinash Kumar D
5.	15IT018	Brinda D
6.	15IT019	Chandhini R
7.	15IT022	DeepaSakthi G
8.	15IT025	Geerthana B
9.	15IT026	Gokulkarthick K
10.	15IT033	Hariharan KR
11.	15IT038	JeyaKowsalya J
12.	15IT048	Mahesh Arvind S
13.	15IT062	Neelambika T
14.	15IT065	Nivetha RM
15.	15IT070	Priyadharshini B
16.	15IT071	PriyaVinitha A
17.	15IT076	Rathna I
18.	15IT077	Renuka S
19.	15IT079	Sakthi M
20.	15IT080	Sangeetha A
21.	15IT082	Saranya G
22.	15IT084	SathyaSaroja B
23.	15IT085	SelvaPriya V
24.	15IT086	SethuMeenal M
25.	15IT087	Shagithiya J
26.	15IT088	Shahithya D
27.	15IT093	Shilpa P
28.	15IT094	Shindujaa R
29.	15IT099	Subiksha Gandhi G
30.	15IT105	Suvetha G
31.	15IT109	Vaigai R
32.	15IT110	VairamSujitha M
33.	15IT111	Vaishnavi A
34.	15IT112	Vandna R
35.	15IT116	Vijayalakshmi B
36.	15IT117	Yazhini D
37.	15IT124	JeyaPriyadharshini J
38.	15IT125	MadhuVignesh RS

TCE-III-AS-P1/2

TCE-III



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TCE-III

Attendance sheet for the one/~~two~~ credit

Name of the Course: Techniques and Tools in Data Science
 Name of the Industry: CTS
 Name of the Expert: Mr. R. Ramanathan
 Number of Students enrolled: 55
 Name of the Faculty: K.V. Uma & S. Pudumalar
 Date/Time/Venue: 15th & 16th October 2016, 9.00 am to 5.00 PM,
 Motorola lab

Attendance Sheet - Attached

S.No	Reg.No	Name	Department	Signature

Signature of the Faculty Coordinator